REGISTRATION REPORT

Part B
Section 3
Efficacy Data and Information

Concise summary

Product code(s): ADM.03500.F.2.B / ADM.3500.F.2.B / MCW-2075

Product name(s): Soratel

Chemical active substance(s):

Prothioconazole, 250 g/L

Central

Zonal Rapporteur Member State: Poland

CORE ASSESSMENT

(authorization)

Applicant: Adama Polska Sp. z.o.o

Submission date: 30/06/2021, updated 26/07/2022, 05/12/2022

MS Finalisation date: December 2022 (initial core Assessment)

Applicant update: January 2023

MS Finalisation date: March 2023, auto-correction August 2023 (final Core Assessment)

Version history

When	What
June 2021	Initial dRR - ADAMA
July 2022	Updated by applicant: Upon request of zRMS the original GAP table is being replaced, by the applicant, with the table of slightly "higher resolution", in which the concerned Member States and crop species are listed in separate rows. The applicant also provides summaries of efficacy after single application, according to the usage pattern requested and proposed in the GAP table.
December 2022	The applicant proposes using supportive data from outside of the Central zone, for the use against SCLESC in the oilseed rape. The trials are listed, discussed and partially summarized by zRMS in the commenting box following the respective SCLESC / BRSNW chapter.
December 2022	Applicant answers to the zRMS questions concerning 3.4.4 (Effect on transformation) and 3.4.5 (Effect on plant parts used for propagation). The applicant`s responses can be found in the zRMS commenting boxes following the respective dRR chapters.
December 2022	Initial assessment by the zRMS The report in the dRR format has been prepared by the Applicant, therefore all comments, additional evaluations and conclusions of the zRMS are presented in grey commenting boxes. Minor changes are introduced directly in the text and highlighted in grey. Not agreed or not relevant information are ~~struck through and shaded for transparency~~.
January 2023	Applicant updated table 3.1-1including winter rye use (no.170) and PUCCHD in winter and spring barley (no.39) for Poland (highlighted in yellow)
March 2023	Final report (Core Assessment updated following the commenting period) Additional information/assessments included by the zRMS in the report in response to comments received from the cMS and the Applicant are highlighted in yellow. Information no longer relevant ~~is struck through and shaded~~.
August 2023	Auto-correction by the zRMS: 1) Moving the 3.2.3.1 "Control of *Zymoseptoria tritici* …[…]" to its correct place at the start of "Efficacy tests (KCP 6.2)" chapter. This section has been erroneously displaced in the course of the evaluation, and, although present within the document at the time of commenting, it was incorrectly found in the "3.2.1. Preliminary tests (KCP 6.1)" chapter. Nonetheless, the section was subject to evaluation since its beginning, as part of the Efficacy data. 2) Insertion of the 3.2.3.7 "Control of Rhynchosporium secalis (RHYNSE) on winter- and spring barley (uses 2, 7, 12, 18, 29, 34, 39, 43, 46, 53)" in its correct place. In the original version of the dRR the section had no numbered header but just the title, and though since the beginning it was subject to evaluation, it had been later deleted as a whole, accidentally, during one of the updates of the Table of Content. Neither the section 3.2.3.1 nor 3.2.3.7 have been amended presently. The zRMS comments pertaining to both these sections had been already taken into account while preparing zRMS remarks to GAP tables in Parts B0, B3 and in Part A, and in preparing the B3 Abstract, before presenting the dossier to commenting. Therefore **the amendments 1 and 2 do not affect nor alter the outcome of the evaluation**. Only the chapter 3.2.3.7 is highlighted in yellow and 3.2.3.1 is not, for only its location was subject to the present amendment, and not its presence in the document.

Table of Contents

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

Transformation of the dRR (applicant version) into the RR (zRMS version)

Comments of zRMS:

Conclusions from the assessment were prepared using grey commenting boxes placed at the end of each chapter. Textual changes were done using grey highlights in the text. The parts of the text amended or added by the zRMS evaluator are highlighted in grey, whereas the parts struck off are ~~visibly marked with the grey font~~.

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

Abstract

Abstract by zRMS

Introduction

Soratel, otherwise coded ADM.03500.F.2.B or ADM.3500.F.2.B or MCW-2075, is an emulsifiable concentrate containing 250 g/L prothioconazole, intended to be used in control of fungal pathogens in cereals and in the oilseed rape. The authorization in the Central EU regulatory zone is sought according to the art. 33 of the 1107/2009 Commision Regulation. The concerned member states are Austria, Belgium, Czech Republic, Germany, Hungary, Ireland, Netherlands, Romania (though not listed in the GAP table), Slovenia and Slovakia. According to the applicant since November 2020 the ADM.03500.F.2.B has been authorized in the UK.

The data submitted

Accompanying this dRR are **561** reports from efficacy trials, carried out in the EU Central, North and South zones, the latter including 74 EPPO Mediterranean zone trials from France, Greece, Italy and Spain. Out of this number, **178** trial reports are not listed in the Appendix 1 of the present dRR; they are only listed in the Appendix 1 of the BAD and were not used by the applicant while compiling the dRR. The remaining **383** trials have been submitted and **are** listed in the Appendix 1 of the present dRR. These trials are shown separately, crop- and MS-wise, in the Table 3.2-5, starting in the page 23, and were used in the evaluation.

The number of trials carried out for particular uses (Crop x Target) is concluded below synthetically, based on the consecutive tables in the Efficacy chapter:

Table no	Crop	Target	no of trials (all EPPO zones)
3.2.3.1-1	Wheat	SEPTTR	69
3.2.3.2-1	Wheat	PYRNTR	29
3.2.3.3-1	Wheat	PUCCST	34
3.2.3.4-1	Wheat	PUCCRT/PUCCRE	45
3.2.3.5-1	Wheat	ERYSGT	27
3.2.3.6-1	Wheat	FUSASP	19
3.2.3.7-1	Barley	RHYNSE	37
3.2.3.8-1	Barley	PYRNTE	49
3.2.3.9-1	Barley	RAMUCC	22
3.2.3.10-1	Barley	PUCCHD	32
3.2.3.11-1	Winter rye	RHYNSE	22
3.2.3.12-1	Winter rye	PUCCRE/PUCCRR	26
3.2.3.13-1	Winter triticale	SEPTTR	30

3.2.3.14-1	Winter triticale	PUCCRE	21
~~3.2.3.15-1~~	~~Winter triticale~~	~~PUCCST~~	~~9~~
3.2.3.16-1	Oats	PUCCCO	9
3.2.3.17-1	Oilseed rape	SCLESC	22
3.2.3.18-1	Oilseed rape	ALTEBA	11

Minimum Effective Dose
Based on the set of submitted trials the dose rates of 0,8 L/ha and 0,7 L/ha may be eventually considered as the minimum effective dose rates, for the uses claimed in cereals and in the oilseed rape, respectively. More explanation by zRMS can be found in the commenting box providing introduction to the MED chapter, page 27.

Efficacy
The following uses can be authorized, can be authorized with further restrictions, or cannot be authorized in particular EEPPO zones:

3.2.3.1 - SEPTTR can be authorized in wheat.
3.2.3.2 - PYRNTR can be authorized in wheat.
3.2.3.3 – PUCCST can be authorized in wheat.
3.2.3.4 – PUCCRT / PUCCRE can be authorized in wheat.
3.2.3.5 – ERYSGT / ERYSGT can be authorized in wheat.
3.2.3.6 – FUSASP in wheat: For the mediocre levels of control efficacy and/or mycotoxin reduction, the authorization of the use in the Maritime and the SE zones is not excluded, but the decision is kindly left to the respective cMSs. Poland, as the zRMS and the only Central Zone cMS in the NE zone, may accept the use based on a the NE zone data plus a number of data points from the supporting Czech Republic, DE and SK trials. For details see the zRMS commenting box following the use 3.2.3.6.
3.2.3.7 – RHYNSE can be authorized in barley.
3.2.3.8 – PYRNTE can be authorized in barley.
3.2.3.9 - RAMUCC in winter and spring barley: The use is supported by sufficient number of trials for the Maritime zone. For the SE zone the single-application assessments are unavailable, therefore the cMSs in that zone are kindly advised to consider individually the relevance of the double-application experimetal design to the single application GAP claim. No data has been presented for the NE EPPO zone and there the use cannot be authorized.
3.2.3.10 - PUCCHD in barley: Data are sufficient for authorization of the use in winter and spring barley in the Maritime and in the NE EPPO zones. Contrastingly, it is up to the cMSs in the SE zone whether they will consider the scarce data from HU as sufficient for authorization in their countries.
3.2.3.11 – RHYNSE in winter rye: Only two EPPO zones are represented. The number of trials is sufficient to allow for authorization of the use in the Maritime zone, based on the zonal data, and in the NE zone, based on the proper zonal data plus the supporting trials from the neighbouring CZ and DE. Additionally, the cMS Slovenia, located across the Mediterranean and the Maritime EPPO zones, is kindly invited to confirm this use, if willing to accept the Maritime zone data from AT, CZ, DE and the UK.
3.2.3.12 – PUCCRE / PUCCRR in winter rye: Only two EPPO zones are represented. The number of trials is sufficient to allow for authorization of the use in the Maritime and the NE EPPO zones, based on the zonal data alone, in each case.
3.2.3.13 – SEPTTR in triticale: The number of submited trials allows for the authorization in the Maritime and the NE zones, whereas the SE zone is represented by 5 trials only, all of them carried out in RO. The remaining cMSs in that zone are kindly advised to decide whether the data set smaller than required and focused on one region represents conditions of the entire EPPO zone. To the opinion of zRMS, however, the situation is acceptable, considered the acknowledged status of the active ingradient of the ADM.03500.F.2.B.
3.2.3.14 – PUCCRE in triticale: The use may be authorized in the NE EPPO zone, but only single trials show efficacy following single application in each of the Maritime and the SE zones. The authorization decision in these zones is therefore left in the hands of the concerned MSs, the more that the SE zone data set is again restricted to a single country (RO)3.2.3.15 – PUCCST in triticale: No trials in Triticale have been submitted to support this use directly. However, extrapolation for this target pathogen is possible based on data from 34 trials in wheat.
3.2.3.16 – PUCCCO in oats: The data set represents practically the Maritime zone alone. According to the GAP table the authorization is sought in that zone only, and to the opinion of zRMS it may be granted.
3.2.3.17 – SCLESC in winter and spring oilseed rape: The number of data points is sufficient for the NE and the SE EPPO zones, whereas it is too low in the Maritime zone (2 trials after exclusion of 3, for reasons detailed in the commenting boxes following the respective use chapter). The use can be authorized in the NE and the SE zones only. However, the cMSs in the Maritime EPPO zone are kindly encouraged to consider individually the supportive

value of the North and the South regulatory zones` data, for authorization of the use in the part of the Central zone that is located in the Maritime EPPO zone.
3.2.3.18 – ALTEBA in winter and spring oilseed rape: To the opinion of zRMS the use should not be authorized. In none of the EPPO zones considered is the number of trials sufficiently high for authorization based exclusively on trials relevant to the respective zone. Nevertheless, the cMSs in the Central zone are kindly encouraged to take their own decisions concerning the use against ALTEBA, if authorization based on the mutual use of suporting data from their neighbouring countries is, in their view, acceptable.

Selectivity data from the efficacy trials, other adverse effects
No phytotoxicity symptoms have been observed in any crops in the efficacy trials. See the respective chapter Phytotoxicity to host crop (KCP 6.4.1) for details. In none of the efficacy trials the yield or its quality parameters were affected negatively by the application of the ADM.03500.F.2.B. Consequently, no specific selectivity trials trials have been submitted by the applicant, which is accepted by zRMS in accordance with the provisions of the PP 1/135 (4) EPPO guidance "Phytotoxicity assessment".
No new data on the effect on transformation process or seed germination have been generated. When inquired, the applicant maintained that, based on the previous practical experience with prothioconazole, no negative effect should be expected in either of these areas.

Resistance Risk

The advantages and drawbacks of triazole compounds as a group are commonly recognized. Despite their very specific MoA pathogens show wide collection of responses to triazoles, from qualitative resistance based on point mutations to the sensitivity shifts that make efficacy fluctuating in consecutive seasons. These aspects of the SBI`s have been presented by the applicant extensively for the main targets of the ADM.03500.F.2.B, across a number of growth seasons and in the background of historical data reaching as far as 20 years back from today.
ADM.03500.F.2.B is a single-active product of the known substance of the SBI Class I group. Although the risk mitigating measures proposed by the applicant may seem unsophisticated, they stem from the broadly acknowledged rules governing biological evolution and they have been still effective, provided they are applied strictly by the end user. To the opinion of zRMS the set of recommendations proposed is sufficient to prevent excessive risk of selection for resistant biotypes in pathogen targets of the ADM.03500.F.2.B. The recommendations should be transferred to national labels in the concerned Member States.

Table 3.1-1: Acceptability of intended uses (and respective fall-back GAPs, if applicable)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use-No. (e)	**Member state(s)**	**Crop and/ or situation** **(crop destination / purpose of crop)**	**F, Fn, Fpn G, Gn, Gpn or I**	**Pests or Group of pests controlled** (additionally: developmental stages of the pest or pest group)	**Application**				**Application rate**			**PHI** (days)	Remarks: e.g. g safener/ synergist per ha, other dose rate expression, dose range (min-max)	**zRMS Conclusion** (efficacy)
					Method / Kind	Timing / Growth stage of crop (BBCH) & season	Max. number a) per use b) per crop/ season	Min. interval between applica-tions (days)	kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season	Water L/ha min / max			
Zonal uses (field or outdoor uses, certain types of protected crops)														
1	Germany	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Drechslera tritici-repentis (DTR) Puccinia striiformis Puccinia recondita Fusarium + microdochium	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C *Fusarium + Microdochium* A other uses
2	Germany	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei	foliar, spraying, overall	-/ ~~BBCH 30-65~~ BBCH 30-61 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
3	Germany	Winterr rye (SECCW)	F	Rhynchosporium secalis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
4	Germany	Winter triticale (TTLWI) Spring triticale (TTLSO)	F	~~Septoria tritici~~ Septoria spp. Puccinia recondita Puccinia striiformis	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			N *Puccinia striiformis* A ~~other uses~~ *Septoria* spp., *Puccinia recondita*
5	Germany	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400			A *S. sclerotiorum* N *Alternatria* spp.
6	Austria	Winter wheat (TRZAW)	F	Septoria tritici / SEPTTR			a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A *Fusarium + Microdochium*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use-No. (e)	**Member state(s)**	**Crop and/ or situation** **(crop destination / purpose of crop)**	**F, Fn, Fpn G, Gn, Gpn or I**	**Pests or Group of pests controlled** (additionally: developmental stages of the pest or pest group)	**Application**				**Application rate**			**PHI** (days)	Remarks: e.g. g safener/ synergist per ha, other dose rate expression, dose range (min-max)	**zRMS Conclusion** (efficacy)
					Method / Kind	Timing / Growth stage of crop (BBCH) & season	Max. number a) per use b) per crop/ season	Min. interval between applica-tions (days)	kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season	Water L/ha min / max			
		Spring wheat (TRZAS)		Drechslera tritici-repentis (DTR) / PYRNTR Puccinia striiformis / PUCCST Puccinia recondita / PUCCRE Fusarium / FUSASP + Microdochium / 1MICDG	foliar, spraying, overall	-/ BBCH 30-69 spring								A other uses
7	Austria	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis / RHYNSE Helminthosporium gramineum / (Pyrenophora teres) / PYRNTE Ramularia collo-cygni / RAMUCC Puccinia hordei / PUCCHD	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 (-) b) 1 (-)	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
8	Austria	Winterr rye (SECCW)	F	Rhynchosporium secalis / RHYNSE Puccinia recondita / PUCCRE	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
9	Austria	Winter triticale (TTLWI) Spring triticale (TTLSO)	F	Septoria tritici / SEPTTR Puccinia recondita / PUCCRE Puccinia striiformis / PUCCST	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C *Puccinia recondita*, *P. striiformis* A ~~other uses~~ *Septoria tritici*
10	Austria	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum / SCLESC Alternaria spp. / ALTESP	foliar, spraying, overall	~~-/ BBCH 50-73~~ BBCH 60-69 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400			A *S. sclerotiorum* N *Alternatria* spp.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use-No. (e)	**Member state(s)**	**Crop and/ or situation** **(crop destination / purpose of crop)**	**F, Fn, Fpn G, Gn, Gpn or I**	**Pests or Group of pests controlled** (additionally: developmental stages of the pest or pest group)	**Application**				**Application rate**			**PHI** (days)	Remarks: e.g. g safener/ synergist per ha, other dose rate expression, dose range (min-max)	**zRMS Conclusion** (efficacy)
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11	Belgium	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Puccinia striiformis Puccinia recondita Fusarium + microdochium	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C *Fusarium + Microdochium* A other uses
12	Belgium	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
13	Belgium	Winterr rye (SECCW)	F	Rhynchosporium secalis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
14	Belgium	Winter triticale (TTLWI) Spring triticale (TTLSO)	F	Septoria tritici Puccinia recondita Puccinia striiformis	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C *Puccinia recondita* A other uses
15	Belgium	Oats (AVESS)	F	Puccinia coronata	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
16	Belgium	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400			C
17	Netherlands	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Puccinia striiformis Puccinia recondita Fusarium + microdochium	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C *Septoria tritici* *Fusarium + Microdochium* A other uses

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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18	Netherlands	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
19	Netherlands	Winterr rye (SECCW)	F	Rhynchosporium secalis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
20	Netherlands	Winter triticale (TTLWI) Spring triticale (TTLSO)	F	Septoria tritici Puccinia recondita Puccinia striiformis	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A *Puccinia recondita* / A other uses
21	Netherlands	Oats (AVESS)	F	Puccinia coronata	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
22	Netherlands	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400			C
28	Ireland	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Puccinia striiformis Puccinia recondita Fusarium + microdochium	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C *Fusarium + Microdochium* / A other uses
29	Ireland	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A

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30	Ireland	Winterr rye (SECCW)	F	Rhynchosporium secalis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
31	Ireland	Winter triticale (TTLWI) Spring triticale (TTLSO)	F	Septoria tritici Puccinia recondita Puccinia striiformis	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C *Puccinia recondita* A other uses
32	Ireland	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400			C
33	Czechia	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Puccinia striiformis Puccinia recondita Erysiphe graminis Fusarium + microdochium	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C
34	Czechia	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C
35	Czechia	Winterr rye (SECCW)	F	Rhynchosporium secalis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C
36	Czechia	Winter triticale (TTLWI) Spring triticale (TTLSO)	F	Septoria tritici Puccinia recondita Puccinia striiformis	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use-No. [(e)]	**Member state(s)**	**Crop and/ or situation** **(crop destination / purpose of crop)**	**F, Fn, Fpn G, Gn, Gpn or I**	**Pests or Group of pests controlled** (additionally: developmental stages of the pest or pest group)	**Application**				**Application rate**			**PHI** (days)	Remarks: e.g. g safener/ synergist per ha, other dose rate expression, dose range (min-max)	**zRMS Conclusion** (efficacy)
					Method / Kind	Timing / Growth stage of crop (BBCH) & season	Max. number a) per use b) per crop/ season	Min. interval between applica-tions (days)	kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season	Water L/ha min / max			
37	Czechia	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400			C
38	Poland	Winter wheat (TRZAW) ~~Spring wheat (TRZAS)~~	F	Septoria tritici Puccinia striiformis Puccinia recondita Erysiphe graminis Fusarium + microdochium	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		~~Range of rates 0.6-0.8 L/ha~~	A
39	Poland	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Puccinia hordei	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		~~Range of rates 0.6-0.8 L/ha~~	A
40	Poland	Winter triticale (TTLWI) ~~Spring triticale (TTLSO)~~	F	Septoria tritici Puccinia recondita ~~Puccinia striiformis~~	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		~~Range of rates 0.6-0.8 L/ha~~	A other uses N *P. striiformis*, Authorization possible only in TTLSO, based on art. 51 Reg. No 1107/2009
41	Poland	Winter oilseed rape (BRSNW) ~~Spring oilseed rape (BRSNS)~~	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400		~~Range of rates 0.6-0.7 L/ha~~	C *S. sclerotiorum* N *Alternaria* spp.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use-No. [(e)]	**Member state(s)**	**Crop and/ or situation** **(crop destination / purpose of crop)**	**F, Fn, Fpn G, Gn, Gpn or I**	**Pests or Group of pests controlled** (additionally: developmental stages of the pest or pest group)	**Application** Method / Kind	Timing / Growth stage of crop (BBCH) & season	Max. number a) per use b) per crop/ season	Min. interval between applica-tions (days)	**Application rate** kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season	Water L/ha min / max	**PHI** (days)	Remarks: e.g. g safener/ synergist per ha, other dose rate expression, dose range (min-max)	**zRMS Conclusion** (efficacy)
42	Slovakia	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Puccinia striiformis Puccinia recondita Fusarium + microdochium	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		~~Range of rates 0.6-0.8 L/ha~~	C *Fusarium + Microdochium* A other uses
43	Slovakia	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres)	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		~~Range of rates 0.6-0.8 L/ha~~	A
44	Slovakia	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400		~~Range of rates 0.6-0.7 L/ha~~	A *S. sclerotiorum* C *Alternaria* spp.
45	Hungary	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Drechslera tritici-repentis (DTR) Puccinia striiformis Puccinia recondita Fusarium + microdochium	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		~~Range of rates 0.6-0.8 L/ha~~	C *Fusarium + Microdochium* A other uses
46	Hungary	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres)	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		~~Range of rates 0.6-0.8 L/ha~~	A
47	Hungary	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400		~~Range of rates 0.6-0.7 L/ha~~	A *S. sclerotiorum* C *Alternaria* spp.
52	Slovenia	Winter wheat (TRZAW)	F	Septoria tritici Puccinia striiformis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C *Fusarium + Microdochium*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use-No. (e)	**Member state(s)**	**Crop and/ or situation** **(crop destination / purpose of crop)**	**F, Fn, Fpn G, Gn, Gpn or I**	**Pests or Group of pests controlled** (additionally: developmental stages of the pest or pest group)	**Application**				**Application rate**			**PHI** (days)	Remarks: e.g. g safener/ synergist per ha, other dose rate expression, dose range (min-max)	**zRMS Conclusion** (efficacy)
					Method / Kind	Timing / Growth stage of crop (BBCH) & season	Max. number a) per use b) per crop/ season	Min. interval between applica-tions (days)	kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season	Water L/ha min / max			
		Spring wheat (TRZAS)		Fusarium + microdochium										A other uses
53	Slovenia	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres)	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			A
54	Slovenia	Triticale (TTLSS)	F	Puccinia recondita Puccinia striiformis	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C *P.recondita* A *P.striiformis*
55	Slovenia	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	--	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400			A *S. sclerotiorum* C *Alternaria* spp.
169	Slovenia	Winterr rye (SECCW)	F	Rhynchosporium secalis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400			C (RHYNSE) N (PUCCRE)
170	Poland	Winter rye (SECCW)	F	Rhyncosporium secalis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	--	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		~~Range of rates 0.6-0.8 L/ha~~	A

* 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.

A	Acceptable
R	Acceptable with further restriction
C	To be confirmed by cMS
N	Not acceptable / evaluation not possible

3.2 Efficacy data (KCP 6)

Introduction

This document summarises the information related to the efficacy data for the registration of the plant protection product ADM.3500.F.2.B. ADM.3500.F.2.B is a fungicide based on the well-known and proven fungicidal active ingredient prothioconazole. Up to now, ADM.3500.F.2.B is not authorised in any country of the EU. Since November 2020 ADM.3500.F.2.B is authorised in UK.

For the reason of the application for registration this dossier is compiled according to Commission Regulation 1107/2009 dated 21.10.2009 and guideline SANCO/6895/2009 rev 1 dated 02.10.2009 (Guidance on the presentation and evaluation of dossiers) and follows the data requirements of Commission Regulation (EU) No 545/2011 dated 10 June 2011. It is based on the results of field trials carried out in the years 2018 to 2020 for the assessment of the biological performance. The trials were carried out in Austria, Belgium, Czech Republic, Germany, Hungary, Ireland, Netherlands, Poland, Romania, Slovakia, and United Kingdom by official testing facilities and private testing organisations. The assessment is supported by trials carried out in Northern France (Southern zone - EPPO climatic zone Maritime), Sweden (Northern zone - EPPO climatic zone Maritime), Latvia and Lithuania (Northern zone – EPPO climatic zone North-East).

Table 3.2-1: Zonal rapporteur member state (zRMS) and concerned member states (cMS).

Central Zone	zRMS	Poland	PL
	cMS	Austria	AT
		Belgium	BE
		Czech Republic	CZ
		Germany	GE
		Hungary	HU
		Ireland	IE
		Netherlands	NL
		Romania	RO
		Slovenia	SI
		Slovakia	SK

Description of active substances / Mode of action

Table 3.2-2: Details of the active substances

Active substance	Prothioconazole
Concentration (Unit: g/kg or g/L...)	250 g/L
Chemical group	**triazoles**
Mode of action	DeMethylation Inhibitors
Biological action	Systemic fungicide
Degradation in soil (DT50)	Lab (DT50): 0.07 to 1.27 days median: 0.5 days (n=4) Field (DT50f): 1.3 to 2.8 days median: 1.6 days (n=8) Based on EFSA Scientific Report (2007) 106, 1-98, Conclusion on the peer review of prothioconazole
Mobility in soil	Low mobility in soil
Date of approval (Annex I)	01.08.2008
Expiration of approval	31.07.2021

Description of the plant protection product
ADM.3500.F.2.B contains the active ingredient (AI) prothioconazole and is formulated as an emulsifiable concentrate (EC). It contains 250 g/L of prothioconazole. Information on the detailed composition of ADM.3500.F.2.B can be found in the confidential dossier of this submission (Registration Report - Part C).

Synonyms and formulation variants of ADM.3500.F.2.B.

Synonyms	Formulation variants	Remarks
ADM.3500.F.2.B		
ADM.03500F.2.B		
(ADM.3500.F.2.A)		*Typing error in 2 trial protocols*
MCW-2075	MCW-2075-5	
	MCW-2075-1	*Not evaluated*
	MCW-2075-9	*Not evaluated*

At present ADM.3500.F.2.B is not yet authorized in any EU member state. Since November 2020 ADM.3500.F.2.B is authorised in UK.

Description of the target pests

Powdery Mildew (Blumeria graminis) on cereals – EPPO code: ERYSGR (also valid for ERYSGH, ERYSGT, and ERYSGS)
Powdery mildew caused by ERYSGR has host specific forms in wheat *(f.sp. tritici)* - ERYSGT, barley *(f.sp. hordei)* – ERYSGH and rye *(f.sp. secalis)* - ERYSGS.
Effects on the crop:
Powdery mildew is one of the most important leaf diseases in cereals. It is spread worldwide. Being an obligate parasite, *Blumeria graminis* can only infest living green plant tissue. In wheat and rye, infestations of the flag leaf and of the glumes may lead to significant yield losses of about 25%, dependent on the begin of infection and the epidemic process. (OBST, A. und GEHRING, K., 2002[1]). Losses in grain yield from mildew can be due to reduced photosynthesis and increases in respiration and transpiration. Grain number and size can also be adversely affected.

Leaf Spot (Zymoseptoria tritici) on wheat and triticale – EPPO Code: SEPTTR
Effects on the crop:
Zymoseptoria tritici the pathogen causing leaf spot disease on wheat occurs predominantly on wheat and is one of the most important pathogens causing leaf diseases in this crop. However, also other cereal crops such as triticale can be infested as well as numerous grass species. Beside the leaves also stems and nodes can be infected. In single cases yield losses of about 30% can be caused, dependent on the beginning of infection and the epidemic process. (Obst, A. und Gehring, K., 2002). They are caused by the loss of green leaf areas leading to a changed sink-source relationship in the plant holding back assimilates and nitrogen substances in the leaves.

Rust diseases (Puccinia species) on cereals – EPPO codes: PUCCRE, PUCCHD, PUCCST, PUCCCO
Effects on the crop:
Puccinia redondita is the most prevalent of all the wheat rust diseases, occurring in nearly all areas where wheat is grown. It is the economically most important rust species on wheat, rye and triticale and is present in all production areas. Early infestations can lead to substantial yield and quality losses since the number of grains, the TGW and the protein content can be reduced. (Obst, A. und Gehring, K., 2002).
In addition to the brown rust pathogen, other rust species may occur on wheat and barley. The most common species are ***P. striiformis*** – PUCCST (yellow rust of wheat and triticale), ***P. hordei*** – PUCCHD (brown rust of barley), ***P. graminis*** – PUCCGR (black stem rust of cereals), and ***P. coronata*** – PUCCCO (crown rust on oats). Which rust disease is most important depends on complex interactions between inoculum sources, varietal resistance, and climatic conditions. All rust diseases can lead to significant yield loss and often occur in complexes with other foliar diseases on wheat and barley.

[1] Obst, A. und Gehring, K.: Getreide – Krankheiten · Schädlinge · Unkräuter; Verlag Th. Mann, Gelsenkirchen, 2002

Tan spot / DTR-disease (Pyrenophora tritici-repentis = Drechslera tritici-repentis) on wheat – EPPO Code: PYRNTR

Effects on the crop:

Pyrenophora tritici-repentis is a fungal plant pathogen, causing tan spot (DTR-disease) that affects mainly wheat. Heavily infested leaves may wither and die. *Pyrenophora tritici-repentis* can also infect wheat grains causing red or pink smudge and black point. Severely infested kernels can result in significant down grading of seed quality. Severe infection by DTR-disease in the seedling stage can kill or severely weaken plants. Leaf spotting diseases reduce the photosynthetic area of leaves resulting in reduced TGW (thousand- grain weight) and lower yields (Obst, A. und Gehring, K., 2002), particularly, if the top two leaves (penultimate and flag leaves) are severely infested. Yield losses caused by tan spot can be as high as 30 to 40 %, but generally range from three to 15 %.

Fusarium head blight (Fusarium sp.) on wheat

Effects on the crop:

Fusarium head blight, or scab, is caused by fungal species in the genus *Fusarium*. The most common species causing Fusarium head blight is *Fusarium graminearum* (sexual stage – *Gibberella zeae*). This pathogen is the same one that frequently is associated with stalk rot of corn. Another *Fusarium* species that causes Fusarium head blight is *Fusarium culmorum*. Both F. *graminearum* and F. *culmorum* also may cause root rot of small grains. On barley, two other *Fusarium* species, *F. poae* and *F. avenaceum*, also may cause kernel blight.

Fusarium head blight can occur on all small grain cereals but is seen most commonly on wheat and barley. Fusarium head blight can cause significant yield losses and quality reductions. Yield losses in all crops occur from floret sterility; additional yield and quality losses can occur when shrivelled, light test-weight kernels are produced as a result of an infection. Quality reductions also may occur if fungal toxins (myco-toxins) are produced in infected seed. The toxins are unacceptable for certain end uses, so toxin-containing grain is downgraded at the market.

Scald (Rhynchosporium secalis) on barley and rye – EPPO Code: RHYNSE

Effects on the crop:

Rhynchosporium secalis is the causal agent of barley and rye scald. The disease is an economically important in barley in Europe, North America and Australia. It has been reported from South America, Africa, the Middle East, Japan and Korea. Yield losses as high as 35-40 % have been reported, however, losses of 1-10 % are more common. Yield loss is primarily due to reduced kernel weight, but both kernels per head and number of heads per plant may also been affected.

Net Blotch (Pyrenophora teres) on barley – EPPO Code: PYRNTE

Effects on the crop:

Severe infection kills leaves prematurely and causes reduced seed weight. It may also reduce the number of ears and the number of grains per ear. Populations of pathogen are highly heterogenic on virulence. In cereal growing areas with favourable climatic conditions, damage from *Pyrenophora* can have serious economic consequences and reduce farm yields by up to 50 %.

Ramularia leaf spot (Ramularia collo-cygni) on barley – EPPO Code: RAMUCC

Effects on the crop:

Ramularia leaf spots (RLS) caused by Ramularia collo-cygni is a relatively new disease in spring and winter barley. It has been observed as a typical spotting on barley leaves, sheaths and awns. The disease occurs conspicuously late in the growing season. Symptoms appear quickly on the top two leaves following head emergence and the start of flowering. When the crop has passed the flowering stage, the disease severity in the field may increase dramatically within a few days and become the dominant disease, while no or few symptoms are visible before the stem elongation stages. Disease symptoms appear on foliage after ear emergence and contribute to premature loss of green leaf area. When the leaf has died, small white Ramularia spores are seen associated with leaf tissue affected by the spots. Ramularia spots also develop on the awn and the stems as small dark brown spots.

Ramularia symptoms on the leaf resemble net blotch lesions (*Pyrenophora teres*), except net blotch tends to produce longer lesions (in its typical form) or more oval lesions (in the spot form of net blotch). *Ramularia* and *Septoria nodorum* (biotic spots) and oxidation damage (abiotic spots) are the major causes of barley leaf spots. Barley leaf spots can lead to yield losses of about 0.5 t/ha and to a reduction of yield quality in spring barley.

Cottony rot / Root rot / Seedling blight of oilseed rape (Sclerotinia sclerotiorum) – EPPO Code: (SCLESC)

Effects on the crop:

Infection occurs by ascospores. *Sclerotinia sclerotiorum* has a wide range of host plants including tomato, carrot, cucumber and weeds. Yield loss of 30 % is possible in rapeseed. Agronomic measures for preventive crop protection include wide crop sequences, weed control and application of calcium cyanamide fertilizer in winter, which stops germination of sclerotia.

Black spot of rape (Alternaria brassicae) – EPPO Code: ALTEBA

Effects on the crop:

Alternaria brassicae is a necrotrophic pathogen and may cause conspicuous spotting of all aerial plant parts depending on host reaction and environmental conditions. Infection of hypocotyls may result in damping-off of the seedlings. Foliar infection may cause defoliation, loss of photosynthetic area and accelerated senescence. Pod infection may lead to premature cracking of pods, also contributing to yield losses. New seeds may become infested. On seed the pathogen can survive for many years.

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

EPPO code	Scientific name / common synonyms	Common name
ALTESP	*Alternaria species*	
ALTEBA	*Alternaria brassicae*	black spot of rape
ERYSGR	*Blumeria graminis / Erysiphe graminis*	powdery mildew
ERYSGH	*Blumeria graminis f. sp. hordei / Erysiphe graminis f. sp. hordei*	powdery mildew of barley
ERYSGS	*Blumeria graminis f. sp. secalis/ Erysiphe graminis f. sp. secalis*	powdery mildew of rye
ERYSGT	*Blumeria graminis f. sp. tritici / Erysiphe graminis f. sp. tritici*	powdery mildew of wheat
FUSACU	*Fusarium culmorum*	culm rot of cereals
FUSASP	*Fusarium species*	
MONGNI	*Microdochium nivale / Fusarium nivale*	head blight of cereals
PUCCCO	*Puccinia coronata*	crown rust of grasses
PUCCCA	*Puccinia coronata var. avenae*	crown rust of oats
PUCCHD	*Puccinia hordei*	brown rust of barley
PUCCRE	*Puccinia recondita*	brown rust of cereals
PUCCRR	*Puccinia recondita f. sp. recondita*	brown rust of rye
PUCCRT	*Puccinia triticina / Puccinia recondita f. sp. tritici*	brown rust of wheat
PUCCST	*Puccinia striiformis*	yellow rust of grasses
PUCCSI	*Puccinia striiformis f. sp. tritici*	yellow rust of wheat
PYRNSP / DRECSP / HELMSP	*Pyrenophora species / Drechslera species / Helminthosporium species/*	
PYRNAV	*Pyrenophora avenae / Drechslera avenae / Helmintosporium avenae*	leaf spot of oats
PYRNGR	*Pyrenophora graminea / Drechslera graminea / Helmintosporium gramineum*	stripe disease of barley
PYRNTE	*Pyrenophora teres /Drechslera teres / Helminthosporium teres*	net blotch of barley
PYRNTM	*Pyrenophora teres f. sp. maculata / Helminthosporium teres f. sp. maculata*	net-spot blotch of barley
PYRNTR	*Pyrenophora tritici-repentis / Drechslera tritici-repentis (DTR) /Helminthosporium tritici-repentis*	tan spot of wheat
RAMUCC	*Ramularia collo-cygni*	ramularia leaf spot of barley
RHYNSE	*Rhynchosporium secalis*	leaf blotch of cereals
SCLESP	*Sclerotinia species*	
SCLESC	*Sclerotinia sclerotiorum*	stem rot
SEPTSP	*Septoria species*	
SEPTTR	*Zymoseptoria tritici / Septoria tritici / Mycosphaerella graminicola*	leaf spot of wheat

* optional

Table 3.2-4: 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**
Wheat	PL, DE, AT, BE, NL, IE, CZ, SI, SK, HU, RO		SEPTTR PYRNTR PUCCST PUCCRT ERYSGT FUSASP	PL, DE, AT, BE, NL, IE, CZ, SI, SK, HU, RO	
Barley			RHYNSE PYRNTE PUCCHD	PL, DE, AT, BE, NL, IE, CZ, SI, SK, HU, RO	
			RAMUCC	DE, AT, SI, HU, PL	~~PL,~~ NL, BE, IE, SK, RO, CZ
Rye	PL, DE, AT, NL, CZ, SI	BE, IE, HU, SK	RHYNSE PUCCRR	PL, DE, AT, NL, CZ SI	BE, IE, HU, SK
Triticale	PL, DE, AT, BE, NL, CZ, SI, RO,	IE, HU. SK	SEPTTR PUCCRE PUCCST	PL, DE, AT, BE, NL, CZ, SI, RO,	IE, HU. SK
Oats	BE~~, NL~~	NL	PUCCCO	BE, NL,	
Oilseed rape	PL, DE, AT, BE, IE, CZ, SI, SK, HU, RO	NL	SCLESC	PL, DE, AT, BE, NL, IE, CZ, SI, SK, HU, RO,	
			ALTESP	PL DE	~~PL, DE,~~ AT, BE, NL CZ, SI, SK, HU, RO

Compliance with the Uniform Principles

All trials presented in this section were implemented in accordance with the GEP principles and according to relevant EPPO guidelines. All trials submitted were carried out by GEP certified test facilities.
The assessments and compilation of this dossier were performed in compliance with the uniform principles for evaluation of plant protection products. These include general principles as the evaluation of data in the light of current knowledge, taking account of the particular conditions prevailing in the zone in which the product is to be used and specific principles concerning, among other things, the efficacy and the absence of unacceptable effects on target crops. The overall assessment was performed according to the Uniform Principles.

Information on trials submitted (3.1 Efficacy data)

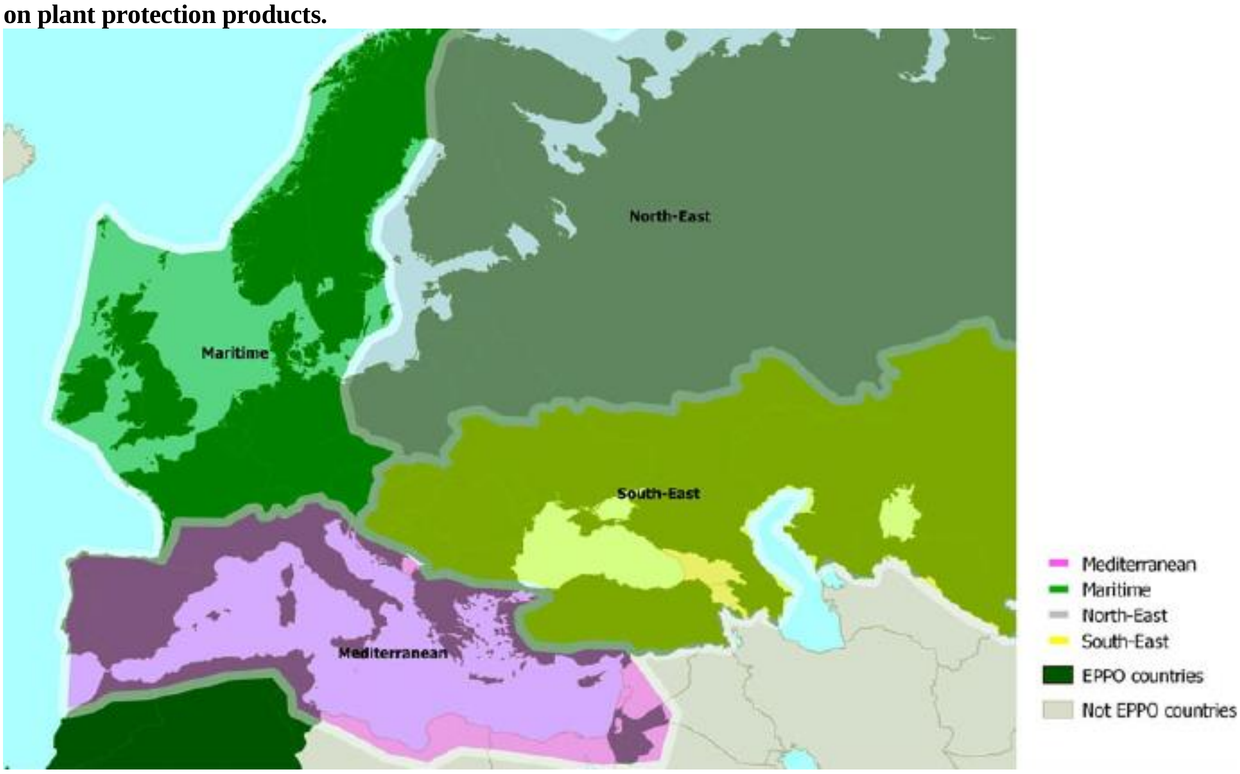
The following EPPO guidelines relate to the conduct of fungicide trials for the control of foliar diseases on wheat, barley, rye, triticale, oats, oilseed rape, crop safety, and the assessment of target pathogen infestations on which data are presented in this dossier.

EPPO guidelines followed:
EPPO guideline N° PP1/181: Conduct and reporting of efficacy evaluation trials.
EPPO guideline N° PP1/152: Design and analysis of efficacy evaluation trials.
EPPO guideline N° PP1//241: Guidance on Comparable Climates.
EPPO guideline N° PP1/225: Minimum Effective Dose.
EPPO guideline N° PP1/026: Foliar and ear diseases on cereals.
EPPO guideline N° PP1/078: Root, stem, foliar and pod diseases on oilseed rape.

In accordance with the guideline, the trials were established as field trials. All the trials were placed within regions where cereals are commonly grown.

Based on EPPO guideline 1/241(2) "Guidance on comparable climates", the trials included in this dossier have been grouped by EPPO zones. EPPO zones have been defined by taking into account differences between the agro-climatic sub-areas of the EPPO region. As shown in figure 3.2-1, four agro-climatic zones are appropriate: The Maritime zone, the Mediterranean zone, the North-East zone, and the South-East zone. However, as demonstrated by comparisons of climatic conditions[2,3], trial results achieved in Poland (EPPO zone North-East) can also been considered supportive for the EPPO zones Maritime and South-East, and vice versa.

Figure 3.2-1: Zones of comparable climate in the EPPO region, for the purpose of evaluation of efficacy trials on plant protection products.



Trials presented in this dossier have been carried out in the following EPPO zones and countries:
Maritime: Austria, Belgium, Czech Republic, Germany, Ireland, Netherlands, United Kingdom; Nort-East: Poland; South-East: Hungary, Romania, Slovakia.

[2] Lopatka, A: et al.: Expert report regarding division of Europe into regions characterized by homogenous soil and climatic conditions, within the boundaries of which the results of efficacy evaluation of pesticides can be relevant for the entire region; Institute of Soil Science and Plant Cultivation – State Research Institute Pulawy, February 2012
[3] Anonymous: Report on comparison of regions: Zachodniopomorskie (Polska) and Podkarpackie (Polska)

Table 3.2-5: Presentation of trials

Crop	Targets	Country	Years	Type of trial	# of tirals				Total	GEP
					Mari-time	Mediter-anean	N-East	S-East		
TRZAW	across targets	AT	2019	MED+E	1					Y
		CZ	2019-2020	MED+E	8					Y
			2019-2020	E	7					Y
		DE	2019-2020	MED+E	12					Y
			2018-2020	E	24					Y
		HU	2019-2020	MED+E				21		Y
			2018-2020	E				14		Y
		IE	2019-2020	MED+E	4					Y
		PL	2019-2020	MED+E			22			Y
			2018-2020	E			12			Y
		RO	2019-2020	MED+E				13		Y
		SK	2019-2020	MED+E				14		Y
		UK	2019-2020	MED+E	10					Y
		Total		**MED+E**	**35**		**22**	**48**	**105**	
				E	**31**		**12**	**14**	**57**	
HORVW	across targets	CZ	2019-2020	MED+E	2					Y
			2018-2020	E	2					Y
		DE	2019-2020	MED+E	11					Y
			2018-2020	E	17					Y
		HU	2019-2020	MED+E				7		Y
			2018-2020	E				10		Y
		IE	2019-2020	MED+E	4					Y
		PL	2019-2020	MED+E			13			Y
			2018-2020	E			6			Y
		RO	2019-2020	MED+E				5		Y
		SK	2019-2020	MED+E				~~7~~ 3		Y
		SK	2019-2020	E				3		Y
		UK	2019-2020	MED+E	6					Y
		Sum		***MED+E***	***23***		***13***	~~***19***~~ ***15***	***51***	
				E	***19***		***6***	~~***10***~~ ***13***	***38***	
HORVS		CZ	2018-2019	MED+E	4					Y
			2019-2020	E	6					Y
		SK	2020	E				2		Y

Crop	Targets	Country	Years	Type of trial	# of tirals Mari-time	 Mediter-anean	 N-East	 S-East	Total	GEP
		Sum		***MED+E***	***4***					
				E	***6***			***2***		
HORVX		**Total**		**MED+E** **E**	**27** **25**		**13** **6**	~~19~~ **15** ~~12~~ **15**	~~**59**~~ **55** ~~**43**~~ **46**	
SECCW	across targets	AT	2019-2020	MED+E	4					Y
		CZ	2019-2020	MED+E	5					Y
		DE	2019-2020 2018-2020	MED+E E	7 8					Y Y
		PL	2019-2020	MED+E			9			Y
		UK	2019-2020	MED+E	3					Y
		Total		**MED+E** **E**	**19** **8**		**9**		**28** **8**	
TTLWI	across targets	AT	2019-2020	MED+E	2					Y
		CZ	2019-2020 2018-2020	MED+E E	8 4					Y Y
		DE	2019-2020 2018-2020	MED+E E	5 3					Y Y
		PL	2019-2020 2018-2020	MED+E E			6 4			Y Y
		RO	2019-2020 2019-2020	MED+E E				8 2		Y Y
		Total		**MED+E** **E**	**15** **7**		**6** **4**	**8** **2**	**29** **13**	
AVESA	across targets	BE	2019	MED+E	1					Y
		CZ	2019	MED+E	2					Y
		DE	2020	MED+E	3					Y
		LV	2020	MDE+E			1			Y
		NL	2020	MED+E	2					Y
		Total		MED+E	**8**		**1**		~~8~~ **9**	
BRSNW	across targets	CZ	2019-2020	MED+E	2					Y
		DE	2018	MED+E	3					Y
		HU	2019-2020 2018-2020	MED+E E				3 4		Y Y
		PL	2019-2020 2018-2020	MED+E E			4 4			Y Y
		SK	2019-2020	MED+E				2		Y
		UK	2019-2020	MED+E	1					Y
		Total		**MED+E**	**6**		**4**	**5**	**15**	

Crop	Targets	Country	Years	Type of trial	# of tirals				Total	GEP
					Mari-time	Mediter-anean	N-East	S-East		
				E			4	4	8	
		Grand total		MED+E					241	
				E					142	

* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-mergence 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.

Maps showing the distribution of trials are presented separately for each use in the relevant efficacy section.

Table 3.2-1: Presentation of reference standards used in trials

RP ID	Trade name	Formul. Type	Active ingredient(s)	Rate (/ha)	Country	Reg:-N°
Zonal reference products						
1	Proline	EC	prothioconazole 250 g/L	0.8	AT, BE, CZ, DE, HU, IE, NL, PL, RO, SK	DE: 025287-00
3	Proline 275	EC	propiconazole 275 g/L	0.72	UK	UK: MAPP 14790
Additional reference products						
4	Adexar	EC	epoxiconazole 62.5 g/L fluxapyroxad 62.5 g/L	2	DE	DE: 6958-00
6	Amistar	SC	azoxystrobin 250 g/L	1	DE	DE: 5090-00; LV: 0187
7	Amistar Opti	SC	azoxystrobin 80 g/L, chlorothalonil 400 g/L	2.5	DE	DE: 5748-00
8	Artemis	EC	prochloraz 200 g/L fenpropidin 150 g/L tebuconazole 100 g/L	2	HU; PL	PL: R-10/2016
9	Aviator Xpro	EC	prothioconazole 150 g/L, bixafen 75 g/L	1	BE, NL	BE: 9994P/B
10	Bumper 250 EC	EC	propiconazole 250 g/L	0.5	CZ, RO	CZ: 3920-1; LV: 0133
12	Delaro 325 SC	SC	prothioconazole 175 g/L 25se das25strobin 150 g/L	1	PL	PL: R-18/2016wu
13	Elatus Era	EC	prothioconazole g/L benzovindiflupyr 75 g/L	0.8	PL, RO	RO: 342PC/22.11.2017; PL: R-229/2017
15	Folicur	EW	tebuconazole 250 g/L	0.7-1	HU	HU: 1047-2/2017
17	Orius 20 EW	EW	tebuconazole 200 g/L	1	HU	HU: 04.2/6497/3/2011
18	Tebusha 25 EW	EW	tebuconazole 250 g/L	0.8-1	HU	HU: 04.2/2887-2/2014
19	Tebusip	EC	tebuconazole 250 g/L	1	CZ	CZ: 5374-0
20	Hutton	EC	prothioconazole 100 g/L, spiroxamine 250 g/L, tebuconazole 100 g/L	0.8-1	CZ	CZ: 4662-1
22	Leander	EC	fenpropidin 750 g/L	0.25	PL	DE: 006345-00; PL: R-254/2014
23	Mirador Xtra	SC	azoxystrobin 200 g/L cyproconazole 80 g/L	0.75-1	CZ	CZ: 4626-1
24	Mirage 45 EC	EC	prochloraz 450 g/L	1	HU	AT: 2791; DE:024216-00
25	Opus	SC	epoxiconazole 125 g/L	1	DE	DE: 4183-00
26	Osiris	EC	epiconazole 37,5 g/L, metconazole 27,5 g/L	3	CZ	SK: 12-02-1292;
27	Plover	EC	difenoconazole 250 g/L	0.5	UK	UK: MAPP/MAFF No.: 17288
28	Propulse 250 SE	SE	prothioconazole 125 g/L fluopyram 125 g/L	1	PL	PL: R-231/2017
30	Seguris	SC	epoxiconazole 90 g/L, isopyrazam 125 g/L	1	PL	DE: 007203-00; NL: 14245; PL: R-5/2012 wu
31	Slape Trio	EC	prothioconazole 53 g/L, spiroxamine 224 g/L, tebuconazole 148 g/L	0.7	CZ	CZ: 4760-2
32	Zakeo Opti	SC	azoxystrobin 80 g/L, chlorothalonil 400 g/L	2.5	DE	DE: 5748-00

Data are summarised by uses. Within uses they are summarised by EPPO climatic zones and, if there is no significant difference between trials from different EPPO climatic zones, the synthesis across the EPPO zones is discussed.

Detailed information about the testing facilities/organisations and their certificates of recognition is provided in section 3.7.

3.2.1 Preliminary tests (KCP 6.1)

The active ingredient of ADM.3500.F.2.B, prothioconazole is authorised and widely used for the control of fungal pathogens in many countries inside and outside of Europe. It therefore is not deemed necessary to provide results from preliminary range finding tests. The product complies with the Uniform Principles.

zRMS comments: The zRMS agree with the applicant`s reasoning. The non-submission of the preliminary trials has been accepted, based on the acknowledged status of the active contained in the test item.

3.2.2 Minimum effective dose tests (KCP 6.2)

In total 244 trials were established to assess the minimum effective dose of ADM.3500.F.2.B.
In cereal crops the target rate of ADM.3500.F.2.B is 0.8 L/ha. The reduced tested rates of ADM.3500.F.2.B are 0.7 L/ha, 0.6 L/ha and 0.4 L/ha.
In oilseed rape the target rate of ADM.3500.F.2.B is 0.7 L/ha. The reduced tested rates are 0.6 L/ha and 0.4 L/ha.
In accordance with the EPPO guideline PP 1/225(1) “Minimum effective dose”, the rate range reflects 50%, 75 %, 87.5 % and 100 % of the recommended dose rate of ADM.3500.F.2.B in cereal crops, and ~~58.1~~ 57.1 %, 85.7 %, and 100 % in oilseed rape.
Efficacy is tested under a range of environmental conditions to fully challenge the product. All trials included in this section are also included in section 3.2.3. The detailed methods and materials are described in section 3.2.3.

All trials were conducted to GEP and followed the appropriate EPPO standards by officially recognized testing organisations. The results presented are based on field trials. All trials were of a randomized block design with four replicates. All field trials were of a minimum plot size of 10 m^2. As a zonal reference product Proline (respectively Proline 275) was used and applied at its authorised rate.

Although ADM.3500.F.2.B is intended to be applied only once per season, in the vast majority of the trials it was applied twice for a product specific comparison to the reference product and to avoid interferences with other products applied in sequence with the test- or the reference product.

For more details on materials and methods, please refer to sections 3.2.3.1 to 3.2.3.18.

zRMS introduction to the MED chapter:

The authorization of the ADM.03500.F.2.B / ADM.3500.F.2.B/ MCW-2075/ Soratel is sought for the single application. Using double application regime in the trials may potentially blur the efficacy assessment, as the first application may enhance the efficacy results of the second treatment, or *vice versa*. The applicant`s justification for using double- instead of single application: […] *for a product specific comparison to the reference product and to avoid interferences* […] is, to the opinion of zRMS, indistinct. It is indeed the result of a single application that is subject to assessment, so the easiest way to avoid any unwelcome interference is to apply the test item once and to assess the efficacy subsequently. That is why separate summaries, showing assessment before the application B, have been provided across the efficacy chapter, on request of the zRMS. On the contrary, such summaries are missing from the MED chapter, in spite of the fact that upon the renewal of any active the minimum effective dose should have been reconsidered.
The Appendix 5.1. of the BAD does not report PESSEV at 0 DAA-B, neither in the UNCK nor in the treated plots. Consequently, based on the tabulated data it is not possible to know whether the growth of the target pathogen resumed, after the effect of the application A ceased (in which case the application B might be considered a separate test, with relevance to the single-application GAP), or if the effect of the application A was lasting still, on 0 DAA-B, making the second application data non-representative of the single-application regimen. Therefore initially the zRMS concluded on the MED based only on those trials which included single treatment alone or at least reported pest severity and efficacy on any date preceding the second application. These results, following single application, are summarized in the commenting boxes for each use, based on Appendix 5.1, BAD.
Although in nearly all uses other than wheat or barley such trials are scarce, it is also noted that the interval between the A and B treatments is most often fairly long: only nine trials overall have their A-B distance <14 days, and only

one of these nine, a trial in Triticale, has it <10 days. Taken this into account the zRMS has decided that where there is similar efficacy a level in the scanty single-application data and the abundant double-application data, the acceptance of the latter is also justified.
The issue of deficient data following single application is addressed by the zRMS in the same way for all the uses in the MED chapter.

Fungal diseases on winter- and spring wheat

Table 6.1.2-1 gives an overview on the dose response results from trials carried out for the control of foliar diseases on wheat. Target pathogens in wheat are *Zymoseptoria tritici* [SEPTTR], *Pyrenophora tritici repentis* [PYRNTR], *Puccinia striiformis* [PUCCST], *Puccinia triticina* [PUCCRT; PUCCRE], *Blumeria graminis* [ERYSGT; ERYSGR], and *Fusarium* sp. [FUSASP]. Due to climatical comparability the number of Polish trials is supplemented by fully supportive trials from Germany, Czech Republic, and Slovakia.

Table 3.2.2-1: Number and distribution of dose response trial results for the control of fungal diseases on wheat

Target	EPPO zone	Country	2019	2020	Sum
SEPTTR	Maritime	CZ	2	1	3
		DE	2	3	5
		IE	2		2
		UK	2		2
	North-East	PL	4	3	7
	South-East	RO	2	3	5
		SK	7	2	9
		HU	2	2	4
	Sum		***23***	***14***	***37***
PYRNTR	Maritime	CZ	1	1	2
		DE	2	5	7
	North-East	PL		1	1
	South-East	HU	4	4	8
		SK		1	1
	Sum		***7***	***12***	***19***
PUCCST	Maritime	CZ		1	1
		DE		3	3
		UK	2	2	4
		IE		1	1
	North-East	PL	*2*	*2*	*4*
	South-East	HU	2	1	3
		RO	2	1	3
		SK		1	1
	Sum		***8***	***12***	***20***
PUCCRT	Maritime	AT	1		1
		CZ	1	2	3
		DE	3		3
	North-East	PL	3	2	5
	South-East	HU	2		2
		RO	2		2
		SK	6		6
	Sum		***18***	***4***	***22***
ERYSGT	Maritime	CZ	3	1	4
	North-East	PL	2	3	5
	South-East	HU	2		2
		RO	2		2
		SK	3		3
	Sum		***12***	***4***	***16***
FUSASP	Maritime	CZ	2		2
		DE	1		1
		UK	2	2	4
		IE	1	1	2
	North-East	PL	3		3
	South-East	HU	2		2
		RO	2		2
		SK	2	1	3
	Sum		***15***	***4***	***19***
Total			**83**	**50**	**133***

* as many trials account for the dose response in more than one target, the figures labelled as “Total” represent in fact the number of **data points**. For the actual number of MED **trials** see the Table 3.2-5.

ADM.3500.F.2.B was tested with the rates of 0.8 L/ha, 0.7 L/ha, 0.6 L/ha, and 0.4 L/ha. The results are presented in table 3.2.2-2.

3.2.2-2: Efficacy of different rates of ADM.3500.F.2.B against fungal diseases on wheat

Crop	Patho-gen	EPPO Zone	n	Disease level in UTC (%)		Control (%) of Test Product								Control (%) of Ref. Prod. (Proline)	
						0.4 L/ha		0.6 L/ha		0.7 L/ha		0.8 L/ha			
				Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
1		2	3	4		5								6	
TRZAW	SEPTTR	Maritime	12	31.9	5-76	59.5	28-96	76.7	56-100	80.2	57-100	85.9	67-100	80.6	54-100
		N-East	7	15.2	5-36	56.1	34-68	69.4	43-78	79.3	61-90	88.6	81-96	85.5	77-98
		S-East	18	11.3	5-25	75.1	48-96	83.1	64-100	87.4	67-100	91.6	70-100	90.0	77-100
		Across EPPO zones	**37**	**18.7**	**5-76**	**66.5**	**28-96**	**78.4**	**43-100**	**83.5**	**57-100**	**89.2**	**67-100**	**86.1**	**54-100**
TRZAW	PYRNTR	Maritime	9	33.0	4-99	66.8	8-94	78.1	38-100	82.2	38-100	88.3	66-100	88.0	74-100
		N-East	1	10.3	10-10	71.0	71-71	77.1	77-77	84.3	84-84	90.2	90-90	86.6	87-87
		S-East	9	7.1	3.3-12	65.3	57-80	75.7	64-96	85.4	74-100	83.8	66-100	87.0	75-100
		Across EPPO zones	**19**	**19.5**	**3.3-99**	**66.3**	**8-94**	**76.9**	**38-100**	**83.8**	**38-100**	**86.3**	**66-100**	**87.5**	**74-100**
		*** Across EPPO zones**	**17**	**21.4**	**5.4-99.0**	**64.9**	**7.7-94.2**	**75.8**	**38.5-96.7**	**82.7**	**38.5-100**	**85.2**	**65.7-100**	**86.4**	**73.8-100**
TRZAW	PUCCST	Maritime	9	37.2	6.5-78	68.0	23-97	73.4	31-99	76.8	32-99	82.6	50-99	77.5	50-99
		N-East	4	9.3	5.4-18	63.2	38-84	73.8	54-93	82.2	66-96	89.6	74-98	90.7	76-99
		S-East	7	7.6	5.3-12	79.1	69-89	85.9	76-97	88.6	79-98	92.4	84-100	92.3	83-99
		Across EPPO zones	**20**	**21.3**	**5.3-78**	**70.9**	**23-97**	**77.8**	**31-99**	**82.0**	**32-99**	**87.4**	**50-100**	**85.3**	**50-99**
TRZAW	PUCCRT	Maritime	3	20.4	9.6-34	44.3	17-65	57.9	47-75	71.3	61-80	79.1	76-82	68.2	46-80
		N-East	5	31.2	5.8-59	78.0	70-85	84.7	76-90	90.3	81-100	94.3	86-100	92.0	84-100
		S-East	10	18.5	5.3-53	78.2	55-98	87.8	73-100	89.8	76-100	92.1	77-100	90.2	72-100
		Across EPPO zones	**22**	**21.2**	**5.3-59**	**71.9**	**17-98**	**81.8**	**47-100**	**87.1**	**61-100**	**90.3**	**76-100**	**87.3**	**46-100**
TRZAW	ERYSGT	Maritime	4	13.9	6.2-28	63.2	0-93	67.0	0-97	72.2	2-99	97.3	93-100	81.9	36-100
		N-East	5	10.9	9.5-14	56.7	44-72	70.9	58-84	86.0	82-95	93.6	88-99	90.6	85-97
		S-East	7	10.5	5-25	72.2	57-100	83.2	75-100	89.5	78-100	92.4	83-100	88.2	69-100
		Across EPPO zones	**16**	**11.5**	**5-28**	**65.1**	**0-100**	**75.3**	**0-100**	**84.1**	**2-100**	**94.0**	**83-100**	**87.4**	**36-100**
TRZAW	FUSASP	**Pest severity on ears**													
		Maritime	9	45.8	19-100	28.8	4-48	39.5	7-55	47.2	6-62	58.1	17-81	50.6	13-77
		N-East	3	13.4	6.4-22	63.0	59-69	76.3	71-85	86.3	80-91	92.9	87-99	91.5	86-98
		S-East	7	8.8	5.1-12	52.9	0-72	64.2	0-83	70.7	3-87	77.4	18-91	76.1	13-92
		Across EPPO zones	**19**	**27.1**	**5.1-100**	**43.1**	**0-72**	**54.4**	**0-85**	**62.0**	**3-91**	**70.7**	**17-99**	**66.4**	**13-98**
		Pest incidence on grains													
		Maritime	5	29.9	5.9-76	26.9	9-42	29.7	12-47	39.0	25-49	46.6	39-67	43.4	28-58
		N-East	2	6.3	5.8-7	87.9	87-89	100.0	100	100.0	100	100.0	100	100.0	100
		S-East	4	20.1	13-30	58.3	39-75	69.4	52-80	74.0	59-82	75.3	62-86	69.1	38-86
		Across EPPO zones	**11**	**22.0**	**5.8-76**	**49.4**	**9-89**	**56.9**	**12-100**	**62.8**	**25-100**	**66.8**	**39-100**	**63.0**	**28-100**

1 Name
2 EPPO-Zone
3 number of results (test/reference product)
4 disease level at untreated control (UTC) [%]
5 application rate test product
6 performance of the reference product(s)
* when 2 trials with PESSEV < 5% are excluded

zRMS comments to the Table 3.2.2-2 (efficacy in wheat):

The assessments summarized in the Table 3.2.2-2 above are carried out within the following intervals:
SEPTTR: 35-78 DAA (15-54 DAB, except for 1 trial with single application); BBCH 69-85 on assessment,
PYRNTR: 28-67 DAA (14-45 DAB, except for 2 trials with single application); BBCH 69-85 on assessment,
PUCCST: 29-74 DAA (14-39 DAB, except for 4 trials with single application); BBCH 71-86 on assessment,
PUCCRT: 24-78 DAA (14-54 DAB, except for 2 trials with single application); BBCH 65-85 on assessment,
ERYSGT: 13-68 DAA (0-47 DAB, except for 3 trials with single application; 0 DAB in 3 other trials); BBCH 35-85 on assessment,
FUSASP: 21-47 DAA; all trials with single application; BBCH 75-87 on assessment.

Except for *Fusarium* sp., most of the remaining trials include double application with the interval 10-20 days, depending on the trial target, and majority of the data summarized are the assessmeents following two applications.

target	PESSEV on assessment day % (min-max)	Part rated	n	DAA	Efficacy (%UNCK)				
					Test item (L/ha) (min-max)				Reference standard
					0,4	0,6	0,7	**0,8**	
SEPTTR	32,3	F1*	1	40	72,9	77,1	89,2	**94,0**	93,1
PYRNTR	7,0 (5,4-8,6)	F1-F2; F4	2	28; 41	66,7 (63,7-69,6)	73,5 (64,4-82,6)	85,4 (73,6-97,1)	**87,3 (74,5-100)**	87 (75,4-98,6)
PUCCST	33,13 (5,4-77,5)	F1-F4	4	29-46	77,3 (62,4-92,3)	81,2 (61,0-94,7)	84,9 (64,5-97,3)	**89,1 (74,5-98,1)**	86,2 (61,0-99,1)
PUCCRT	36,2 (13,5-58,8)	F1; F1	2	24; 25	76,9 (75,0-78,7)	84,3 (79,6-88,9)	89,9 (88,3-91,5)	**95,2 (92,2-98,1)**	89,9 (86,5-93,2)
ERYSGT	11,8 (5,0-28,1)	F1-F5	6	13-28	66,8 (0,0-100)	73,1 (0,0-100)	78,8 (2,4-100)	**96,5 (88,2-100)**	86,4 (35,6-100)
TOTAL:			**15**						

*F1= flag leaf

Based on 34 trials with single application (19 in control of *Fusarium* sp., shown by the applicant, and 15 trials altogether summarized above, in control of other pathogens in wheat) it may be concluded that the dose response is observed, following single application, in the tested wheat pathogens. In order to approach or exceed the 90% efficacy threshold the dose rate of 0.8 L/ha of the test item must be used.

The results demonstrate that against fungal diseases on wheat, independent of the EPPO climatic zone, a clear dose response effect can be observed. To reach the level of performance of the authorized reference formulations of prothioconazole, the full rate of 0.8 L/ha is required. Thus, the intended target dose rate of 0.8 L/ha of ADM.3500.F.2.B is justified.

Fungal diseases on winter- and spring barley

Table 3.2.2-3 gives an overview on the dose response results from trials carried out for the control of fungal diseases on barley. Target pathogens in barley are *Rhynchosporium secalis* [RHYNSE], *Pyrenophora teres* [PYRNTE], *Ramularia collo-cygni* [RAMUCC], and *Puccinia hordei* [PUCCHD]. Due to climatical comparability the number of Polish trials is supplemented by fully supportive trials from Germany, Czech Republic, and Slovakia.

Table 3.2.2-3: Number and distribution of dose response trial results for the control of fungal diseases on barley

Target	EPPO zone	Country	2019	2020	Sum
RHYNSE	Maritime	DE	2	2	4
		UK	3	1	4
		IE	2	1	3
	North-East	PL	3	2	5
	South-East	HU	2	1	3
		RO	2	1	3
		SK	1	1	2
	Sum		***15***	***9***	***24***
PYRNTE	Maritime	CZ	2	4	6
		DE	1	2	3
		UK	1	1	2
	North-East	PL	3	3	6
	South-East	HU	2		2
		RO	2		2
		SK	2	3	5
	Sum		***13***	***13***	***26***
RAMUCC	Maritime	DE	3	3	6
		IE	2		2
	South-East	HU		2	2
		SK	2	2	4
	Sum		***7***	***7***	***14***

PUCCHD	Maritime	CZ	1	4	5
		DE	4	1	5
		UK	1		1
	North-East	PL	2	2	4
	Sum		***8***	***7***	***15***
Total			**38**	**34**	**72***

* as many trials account for the dose response in more than one target, the figures labelled as "Total" represent in fact the number of **data points**. For the actual number of MED **trials** see the Table 3.2-5.

ADM.3500.F.2.B was tested with the rates of 0.8 L/ha, 0.7 L/ha, 0.6 L/ha, and 0.4 L/ha. The results are presented in table 3.2.2-4.

Table 3.2.2-4: Efficacy of different rates of ADM.3500.F.2.B against fungal diseases on winter- and spring barley

Crop	**Patho-gen**	**EPPO Zone**	**n**	**Disease level in UTC (%)**		**Control (%) of Test Product**								**Control (%) of Ref. Prod. (Proline)**	
						0.4 L/ha		**0.6 L/ha**		**0.7 L/ha**		**0.8 L/ha**			
				Mean	**Range**	**Mean**	**Range**	**Mean**	**Range**	**Mean**	**Range**	**Mean**	**Range**	**Mean**	**Range**
1		2	3	4		5								6	
HORVW/HORVS	RHYNSE	Maritime	11	14.6	5-44	71.9	33-100	82.1	62-100	88.2	67-100	92.4	76-100	90.3	71-100
		N-East	5	11.7	6.3-22	55.5	39-62	65.6	50-72	76.1	67-81	85.9	84-91	84.5	79-88
		S-East	8	18.4	5.5-73	78.5	57-99	85.7	74-99	90.3	78-100	94.0	82-100	93.9	80-100
		Across EPPO zones	**24**	**15.3**	**5-73**	**70.7**	**33-100**	**79.9**	**50-100**	**86.4**	**67-100**	**91.5**	**76-100**	**90.3**	**71-100**
HORVW/HORVS	PYRNTE	Maritime	11	17.4	5.9-41	72.6	30-95	84.5	73-97	90.8	74-100	92.4	78-100	86.0	58-100
		N-East	6	13.0	6.5-31	64.5	53-75	74.6	63-83	86.4	81-92	93.8	89-98	93.4	89-100
		S-East	9	12.0	4.2-23	75.9	50-100	82.6	67-100	86.8	73-100	91.1	76-100	90.8	77-100
		Across EPPO zones	**26**	**14.5**	**4.2-41**	**71.9**	**30-100**	**81.6**	**63-100**	**88.4**	**73-100**	**92.2**	**76-100**	**89.4**	**58-100**
		***Across EPPO zones**	**25**	**14.9**	**5.9-40.8**	**72.8**	**30-100**	**82.2**	**63.2-100**	**89.0**	**72.7-100**	**92.8**	**75.5-100**	**89.9**	**57.5-100**
HORVW/HORVS	RAMUCC	Maritime	8	42.5	8.9-97	60.2	21-98	70.5	35-99	75.8	45-99	80.8	56-99	78.5	46-100
		S-East	6	35.2	6.1-91	68.5	55-82	79.3	63-88	84.4	68-91	88.7	76-93	88.8	76-93
		Across EPPO zones	**14**	**39.4**	**6.1-97**	**63.7**	**21-98**	**74.2**	**35-99**	**79.5**	**45-99**	**84.2**	**56-99**	**82.9**	**46-100**
HORVW/HORVS	PUCCHD	Maritime	11	18.3	4.8-53	85.0	45-100	92.6	74-100	96.7	88-100	96.9	89-100	94.6	82-100
		N-East	4	12.6	7.4-23	53.6	37-81	65.6	51-87	88.7	83-94	96.2	95-98	94.9	93-98
		Across EPPO zones	**15**	**16.8**	**4.8-53**	**76.6**	**37-100**	**85.4**	**51-100**	**94.6**	**83-100**	**96.7**	**89-100**	**94.7**	**82-100**

*a single trial SK19FEHORVW232A, with PESSEV<5% excluded

The results demonstrate that against fungal diseases on barley, independent of the EPPO climatic zone, a clear dose response effect can be observed. To reach the level of performance of the authorized reference formulations of prothioconazole, the full rate of 0.8 L/ha is required. Thus, the intended target dose rate of 0.8 L/ha of ADM.3500.F.2.B is justified.

zRMS comments to the Table 3.2.2-4 (efficacy on barley):

RHYNSE: 14-64 DAA (0-44 DAB, except for 3 trials with single application; 0 DAB in one trial); BBCH 69-85 on assessment,
PYRNTE: 21-71 DAA (0-42 DAB, except for 1 trial with single application; 0 DAB in two trials); BBCH 59-83 on assessment,
RAMUCC: 21-60 DAA (13-42 DAB, except for 1 trial with single application); BBCH 61-85 on assessment,
PUCCHD: 19-71 DAA (0-44 DAB, 0 DAB in one trial); BBCH 65-85 on assessment,

The available efficacy results following single application are shown below, based on Appendix 5.1, BAD:

target	PESSEV on assess-ment day % (min-max)	Part rated	n	DAA	Efficacy (%UNCK)				
					Test item (L/ha) (min-max)				Reference standard
					0,4	0,6	0,7	**0,8**	
RHYNSE	7,6 (6,3-9,2)	*F1;F2;F3;F4	4	14;28;28;30	64,5 (57,5-78,5)	72 (66,9-82,1)	79,8 (76,8-86,9)	**86,1 (83,8-91,2)**	87,1 (84,1-92,0)

PYRNTE	9,0 (5,9-13,0)	F1;F2;F3	3	14;14;19	86,9 (78,1-95,2)	93,9 (90,5-96,3)	98,1 (97,2-98,7)	**99,4 (98,5-100)**	98,7 (96,9-100)
RAMUCC	7,8	F2-F3	1	21	55,2	63,3	67,9	**75,6**	75,9
PUCCHD	5,1	F3	1	19	94,1	97,9	99,0	**99,8**	99,2
		TOTAL:	**9**						

*F1= flag leaf

Based on 9 trials with single application (or showing efficacy assessments preceding the second application) it may be provisionally* concluded that the dose response is observed in barley pathogens tested, following single application, and the dose rate of 0.8 L/ha may be considered as the minimum effective dose (*In RHYNSE and RAMUCC the dose response in double-application regimen is similar yet the absolute efficacy of the 0,8 L dose rate is apparently higher compared to single application. This not surprising, but still more data pertaining to single application would be useful to assess the MED for these pathogens reliably. Therefore the zRMS refers the reader to efficacy chapter, where the efficacy of the target dose rate can be seen as expressed more definitely, supported by higher number of assessments following single application only).

Fungal diseases on rye

Table 3.2.2-5 gives an overview on the dose response results from trials carried out for the control of fungal diseases on rye. Target pathogens in rye are *Rhynchosporium secalis.* [RHYNSE] (use 011) and *Puccinia recondita* [PUCCRR, PUCCRE] (use 012). Due to climatical comparability the number of Polish trials is supplemented by fully supportive trials from Germany and Czech Republic.

Table 3.2.2-5: Number and distribution of valid dose response trial results for the control fungal diseases on winter rye

Target	EPPO zone	Country	2019	2020	Sum
RHYNSE	Maritime	AT	1	1	2
		CZ	1	3	4
		DE	1	5	6
		UK	1		1
	North-East	PL	3		3
	Sum		***7***	***9***	***16***
PUCCRR	Maritime	AT	1	1	2
		CZ		3	3
		DE	2	3	5
		UK		2	2
	North-East	PL	3	3	6
	Sum		***6***	***12***	***18***
Total			**13**	**21**	**34***

* as many trials account for the dose response in more than one target, the figures labelled as "Total" represent in fact the number of **data points**. For the actual number of MED **trials** see the Table 3.2-5.

ADM.3500.F.2.B was tested with the rates of 0.8 L/ha, 0.7 L/ha, 0.6 L/ha, and 0.4 L/ha. The results are presented in table 3.2.2-6.

Table 3.2.2-6: Efficacy of different rates of ADM.3500.F.2.B against fungal diseases on rye

Crop	Patho-gen	EPPO Zone	n	Disease level in UTC (%)		Control (%) of Test Product								Control (%) of Ref. Prod. (Proline)	
						0.4 L/ha		0.6 L/ha		0.7 L/ha		0.8 L/ha			
				Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
1		2	3	4		5								6	
SECCW	RHYNSE	Maritime	13	17.0	5-65	70.0	43-100	86.7	64-100	90.6	68-100	90.6	70-100	89.4	67-100
		N-East	3	7.8	7.3-9	47.1	38-63	59.5	50-73	78.1	65-85	84.5	74-95	83.5	71-93
		Across EPPO zones	**16**	**15.3**	**5-65**	**65.7**	**38-100**	**81.6**	**50-100**	**88.2**	**65-100**	**89.4**	**70-100**	**88.3**	**67-100**
SECCW	PUCCRR	Maritime	12	10.3	5-17	72.7	51-97	85.4	60-100	91.5	48-100	92.9	58-100	92.9	62-100
		N-East	6	17.4	6-31	53.5	43-70	69.5	59-84	82.4	79-91	93.4	84-100	91.5	84-98
		Across EPPO zones	**18**	**12.7**	**5-31**	**66.3**	**43-97**	**80.1**	**59-100**	**88.5**	**48-100**	**93.1**	**58-100**	**92.4**	**62-100**

The results demonstrate that against fungal diseases on rye, independent of the EPPO climatic zone, a clear dose response effect can be observed. To reach the level of performance of the authorized reference formulations of prothioconazole, the full rate of 0.8 L/ha is required. Thus, the intended target dose rate of 0.8 L/ha of ADM.3500.F.2.B is justified.

zRMS comments to the Table 3.2.2-6 (efficacy1 on rye):

RHYNSE: 38-70 DAA (21-53 DAB, except for one trial with single application); BBCH 65-85 on assessment, PUCCRE / PUCCRR: 43-74 DAA (21-66 DAB, except for 1 trial with single application); BBCH 69-85 on assessment,

The available efficacy results following single application include only trial, according to Appendix 5.1, BAD:

target	PESSEV on assessment day % (min-max)	Part rated	n	DAA	Efficacy (%UNCK)				
					Test item (L/ha) (min-max)				Reference standard
					0,4	0,6	0,7	**0,8**	
RHYNSE	-	-	0	-	-	-	-	**-**	-
PUCCRE / PUCCRR	16,6	F1*	1	64	57,5	59,6	88,7	**96,0**	96,0
		TOTAL:	**1**						

*F1= flag leaf

Based on the lower limits of the min-max range as much as on the mean efficacy values, the target dose rate of 0,8 L/ha can be considered justified as the MED, although concluded mostly from the double application data. In case of PUCCRE/PUCCRR the single application data seem to confirm this conclusion, but they nevertheless come from a single trial. Therefore the zRMS refers the reader to efficacy chapter, where the efficacy of the target dose rate 0,8 L/ha can be seen as expressed more definitely, supported by higher number of assessments following single application only.

Fungal diseases on winter- and spring triticale

Table 3.2.2-7 gives an overview on the dose response results from trials carried out for the control of fungal diseases on triticale. Target pathogens in triticale are *Zymoseptoria tritici* [SEPTTR] (use 013), *Puccinia recondita* [PUCCRE] (use 014), and *Puccinia striiformis* [PUCCST] (use 015). Due to climatical comparability the number of Polish trials is supplemented by fully supportive trials from Germany and Czech Republic.

Table 3.2.2-7: Number and distribution of valid dose response trial results for the control fungal diseases on triticale

Target	EPPO zone	Country	2019	2020	Sum
SEPTTR	Maritime	AT		2	2
		CZ	4	3	7
		DE	3	1	4
	North-East	PL	2	2	4
	South-East	RO	2	2	4
	Sum		***11***	***10***	***21***
PUCCRE	Maritime	CZ	4	2	6
		DE	1	1	2
	North-East	PL	2		*2*
	South-East	RO	2	2	*4*
	Sum		***9***	***5***	***14***
Total			**20**	**15**	**35***

* as many trials account for the dose response in more than one target, the figures labelled as “Total” represent in fact the number of **data points**. For the actual number of MED **trials** see the Table 3.2-5.

ADM.3500.F.2.B was tested with the rates of 0.8 L/ha, 0.7 L/ha, 0.6 L/ha, and 0.4 L/ha. The results are presented in table 3.2.2-8.

Table 3.2.2-8: Efficacy of different rates of ADM.3500.F.2.B against fungal diseases on winter triticale

Crop	Patho-gen	EPPO Zone	n	Disease level in UTC (%)		Control (%) of Test Product								Control (%) of Ref. Prod. (Proline)	
						0.4 L/ha		0.6 L/ha		0.7 L/ha		0.8 L/ha			
				Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
1		2	3	4		5								6	
TTLWI	SEPTTR	Maritime	13	17.5	5.4-50	56.4	0-94	70.7	13-97	78.5	27-100	85.9	44-98	81.6	27-99
		N-East	4	14.9	8.6-26	48.8	45-55	64.4	54-72	79.0	70-90	90.3	85-97	88.2	83-95
		S-East	4	10.3	8.4-12	73.3	60-83	83.5	79-91	86.7	84-92	90.6	88-94	91.0	88-94
Across EPPO zones			**21**	**15.7**	**5.4-50**	**58.2**	**0-94**	**71.9**	**13-97**	**80.1**	**27-100**	**87.6**	**44-98**	**84.7**	**27-99**
TTLWI	PUCCRE	Maritime	8	19.7	9.1-43	71.0	28-100	89.1	69-100	93.1	80-100	94.2	83-100	88.5	65-100
		N-East	2	14.8	7-23	34.6	30-39	57.3	47-68	77.1	71-83	93.3	89-97	94.8	93-97
		S-East	4	6.4	3.2-8	78.7	74-84	85.6	81-90	89.3	87-92	91.7	87-94	90.9	85-95
Across EPPO zones			**14**	**15.2**	**3.2-43**	**68.0**	**28-100**	**83.6**	**47-100**	**89.7**	**71-100**	**93.3**	**83-100**	**90.1**	**65-100**

No results from field trials are available for the intended use 'Control of *Puccinia striiformis* on triticale'. For the provision of the efficacy of ADM.3500.F.2.B on this pest on triticale and the required minimum dose, it is referred to the data presented for the control of *Puccinia striiformis* on wheat (table 3.2.2-2).

The results demonstrate that against fungal diseases on triticale, independent of the EPPO climatic zone, a clear dose response effect can be observed. To reach the level of performance of the authorized reference formulations of prothioconazole, the full rate of 0.8 L/ha is required. Thus, the intended target dose rate of 0.8 L/ha of ADM.3500.F.2.B is justified.

zRMS comments to the Table 3.2.2-8 (efficacy on triticale):

SEPTTR: 32-71 DAA (21-45 DAA-B, except for 2 trials with -2 to 0 DAA-B and 2 trials with single application) BBCH 61-85 on assessment,
PUCCRE: 40-62 DAA (11-45 DAA-B, except for 1 trial with single application); BBCH 73-83 on assessment.

The available efficacy results following single application include 5 trials, according to Appendix 5.1, BAD:

target	PESSEV on assess-ment day % (min-max)	Part rated	n	DAA	Efficacy (%UNCK)				
					Test item (L/ha) (min-max)				Reference standard
					0,4	0,6	0,7	**0,8**	
SEPTTR	13,7 (6,0-30,0)	F2-F3	4	61-83	49,3 (0,0-91,7)	59,8 (12,9-91,7)	73,3 (27,4-100)	**77,5 (43,5-95,8)**	68,5 (27,4-95,8)
PUCCRE	6,4	F1*, F2	1	48	79,3	84,7	89,2	**91,9**	90,4
TOTAL:			**5**						

*F1= flag leaf

The efficacy in control of SEPTTR, concluded from 4 trials, is by approximately 10% lower following single application compared to double treatment. Nevertheless, the dose response is visible in both cases.
In control of PUCCRE, except for the lowest dose rate of 0,4 L/ha, the efficacy of single application seems comparable to that resulting from the double treatment. However, such comparison can hardly be considered valid, for the single application data come from a single trial *versus* the respective summary based on 14 trials (including the one with single-application). As the A-B treatment interval within the complete TTLWI x PUCCRE set of trials is between 7 (one trial) and 45 days, the data can be collated and considered jointly.
The zRMS nevertheless refers the reader to efficacy chapter, where the efficacy of the target dose rate 0,8 L/ha can be seen as expressed more definitely, supported by higher number of assessments following single application only.

Fungal diseases on oats

Table 3.2.2-9 gives an overview on the dose response results from trials carried out for the control of fungal diseases on oats. The target pathogen in oats is *Puccinia coronata* [PUCCCO] (use 016).

Table 3.2.2-9: Number and distribution of valid dose response trial results for the control fungal diseases on oats

Target	EPPO zone	Country	2019	2020	Sum
SEPTTR	Maritime	BE	1		1
		DE		3	3
		NL		2	2
	Sum		***1***	***5***	***6****

* the data set for oats include still 1 LV trial and 2 CZ trials (all 3 trials E+MED) not included here by the applicant. For the actual number of MED **trials** see the Table 3.2-5 and the zRMS comments to the Table 3.2.2-10 below.

ADM.3500.F.2.B was tested with the rates of 0.8 L/ha, 0.7 L/ha, 0.6 L/ha, and 0.4 L/ha. The results are presented in table 3.2.2-10.

Table 3.2.2-10: Efficacy of different rates of ADM.3500.F.2.B against Puccinia coronata on oats

Crop	Patho-gen	EPPO Zone	n	Disease level in UTC (%)		Control (%) of Test Product								Control (%) of Ref. Prod. (Proline)	
						0.4 L/ha		0.6 L/ha		0.7 L/ha		0.8 L/ha			
				Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
1		2	3	4		5								6	
AVESA	PUCCCO	Maritime	**6**	**11.1**	**7.1-21**	**82.5**	**58-100**	**91.1**	**68-100**	**92.1**	**84-100**	**93.5**	**83-100**	**94.6**	**82-100**
AVESA	PUCCCO	NE (LV)*	**1**	**7.9**	**-**	**81.9**	**-**	**98.4**	**-**	**100**	**-**	**100**	**-**	**72.4**	**-**
AVESA	PUCCCO	Maritime + NE	**7**	**10.7**	**7.1-21**	**82.4**	**58-100**	**92.2**	**68-100**	**93.2**	**84-100**	**94.4**	**83-100**	**91.4**	**72.4-100**

*single application trial

The results demonstrate that against fungal diseases on triticale, independent of the EPPO climatic zone, a dose response effect can be observed. To reach the level of performance of the authorized reference formulations of prothioconazole, the full rate of 0.8 L/ha is required. Thus, the intended target dose rate of 0.8 L/ha of ADM.3500.F.2.B is justified.

zRMS comments to the Table 3.2.2-10 (efficacy on oats):

PUCCCO: 18-63 DAA (25-39 DAA-B, except for 1 trial with 0 DAA-B data, and 2 trials with single application) BBCH 61-85 on assessment,

The available efficacy results following single application include 3 trials (including the LV trial), according to Appendix 5.1, BAD:

PESSEV on assessment day % (min-max)	Part rated	n	DAA	Efficacy (%UNCK)				
				Test item (L/ha) (min-max)				Reference standard
				0,4	0,6	0,7	**0,8**	
8,4 (7,5-9,9)	F1*, F2	3 (BE, DE, LV)	18; 28; 30	87,3 (81,9-93,2)	96,9 (95,7-98,4)	93,9 (86,7-100)	**92,6 (87,7-100)**	85,9 (72,4-93,3)

*F1= flag leaf

The Maritime data and the data set extended by inclusion of the single LV trial (not included by the applicant) both show that the most apparent dose response is between the 0,4 and 0,6 L/ha dose rates, whereas the further dose increase up to the target 0,8 L/ha results in the efficacy enhancement by small increments only. The dataset is small and relatively inconsistent (with min-max ranges overlap for the 0,7 - 0,8 L/ha dose rates), as 4 trials *per* 7 assess the efficacy after 2 applications. The summary using only the available single-application data (above) is even more wobbly with even wider range overlap between the 0,6 and 0,8 L/ha, suggesting either high variability in the pathogen`s sensitivity across the distant MSs (BE vs LV), or variability in spraying precision. In principle however, the efficacy of the 0,7 and 0,8 L/ha dose rates seems to be comparable in single- and two-application regimen.
Moreover, there are still two more single application trials from the Czech Republic submitted, the CZ19FEAVESA216A and CZ19FEAVESA216B which, for unknown reasons, have not been included by the applicant in the MED summary. Although the first one of them shows nearly no dose response (+1.3%) between the 0,7 and 0,8 L/ha, the other one demonstrates 7% efficacy increase between the two dose rates (L1-L2 leaf data averaged, 29 or 34 DAA, respectively).

Therefore overall, to the opinion of zRMS the 0,8 L/ha dose should be also considered as the MED in oats against PUCCCO.

Fungal diseases on winter- and spring oilseed rape

Table 3.2.2-11 gives an overview on the dose response results from trials carried out for the control of fungal diseases on oilseed rape. Target pathogens in oilseed rape are *Sclerotinia sclerotiorum* [SCLESC] (use 017) and *Alternaria brassicae* [ALTEBA] (use 018). Due to climatical comparability the number of trials from the Maritime EPPO zone is supplemented by fully supportive trials from Poland and vice versa. In 2021 6 further trials for *Sclerotinia sclerotiorum* control were initialised. The results will be filed subsequently.

zRMS comments:
The 2021 trials in the oilseed rape mentioned by the applicant above were not submitted and are **not** included in the present dossier.

Table 3.2.2-11: Number and distribution of dose response trial results for the control of fungal diseases on winter oilseed rape

Target	EPPO zone	Country	2019	2020	Sum
SCLESC	Maritime	CZ	2		2
	North-East	PL	4		4
	South-East	HU	3		3
		SK	2		2
	Sum		***11***	-	***11***
ALTEBA	Maritime	UK		1	1
	North-East	PL	2		2
	South-East	SK	1		1
	Sum		***3***	***1***	***4***
Total			**14**	**-**	**15**

ADM.3500.F.2.B was tested with the rates of 0.7 L/ha, 0.6 L/ha, and 0.4 L/ha. The results are presented in table 3.2.2-12.

Table 3.2.2-12: Efficacy of different rates of ADM.3500.F.2.B against fungal diseases on oilseed rape (SCLESC: pest severity on stems; ALTEBA: pest severity on pods)

Crop	Patho-gen	EPPO Zone	n	Disease level in UTC (%)		Control (%) of Test Product						Control (%) of Ref. Prod. (Proline [0.7 L/ha])	
						0.4 L/ha		0.6 L/ha		0.7 L/ha			
				Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
1		2	3	4		5						6	
BRSNW	SCLESC	Maritime	2	22.0	20-24	35.2	33-38	63.3	60-66	64.4	63-66	49.6	38-61
		N-East	4	37.2	20-55	66.5	53-76	78.7	72-84	89.3	82-98	87.5	76-99
		S-East	5	14.6	1.3-23	51.6	14-78	60.2	15-79	65.9	19-87	64.8	19-85
Across EPPO zones			**11**	**24.1**	**1.3-55**	**54.0**	**14-78**	**67.5**	**15-84**	**74.2**	**19-98**	**70.3**	**19-99**
BRSNW	ALTEBA	Maritime	1	2.1	2.1-2	91.7	92-92	93.1	93-93	92.0	92-92	90.8	91-91
		N-East	2	7.7	7-8	75.3	75-76	84.0	83-85	88.9	89-89	87.8	88-88
		S-East	1	5.2	5.2-5	72.6	73-73	85.9	86-86	90.6	91-91	88.6	89-89
Across EPPO zones			**4**	**5.7**	**2.1-8**	**78.7**	**73-92**	**86.8**	**83-93**	**90.1**	**89-92**	**88.7**	**88-91**

1 Name
2 EPPO-Zone
3 number of results (test/reference product)
4 disease level at untreated control (UTC) [%]
5 application rate test product
6 performance of the reference product(s)

The results demonstrate that against fungal diseases on oilseed rape, independent of the EPPO climatic zone, a clear dose response effect can be observed. To reach the level of performance of the authorized reference formulations of prothioconazole, the full rate of 0.7 L/ha is required. Thus, the intended target dose rate of 0.7 L/ha of ADM.3500.F.2.B is justified.

Summary and conclusions on the minimum effective dose

As a result, the proposed rate of 0.8 L/ha of ADM.3500.F.2.B in cereal crops and the rate of 0.7 L/ha of ADM.3500.F.2.B in oilseed rape should be considered the minimum effective dose to deliver broad spectrum control of the target pathogens under a wide range of environmental conditions.
The product complies with the Uniform Principles.

zRMS comments to the Table 3.2.2-12 (efficacy on oilseed rape):

The table summarizes 11 data points for SCLESC and 4 data points for ALTEBA, in BRSNW.

SCLESC:
assessments on 55-69 DAA, at the BBCH growth stage 83-85. **All efficacy results follow single application** which is consistent with the GAP claim. Clear dose response is demonstrated across the EPPO zones and in each zone separately. The target dose rate of **0,7 L/ha may be claimed as the minimum effective dose** to control SCLESC in winter oilseed rape.

ALTEBA:
assessments on 56-63 DAA, at the BBCH growth stage 79-85. **All efficacy results follow single application** which is consistent with the GAP claim. Whereas clear dose response is demonstrated in data averaged across the EPPO zones, discussing the zones separately makes no sense, for the Maritime and the SE zones are represented by single trials. Moreover, the UK trial shows PESSEV < 5% on the assessment date, which makes the assessment unreliable. When the UK trial is excluded the summary (NE (2) +SE (1) EPPO zones) presents itself as follows:

PESSEV on assessment day % (min-max)	Part rated	n	DAA	Efficacy (%UNCK)				
				Test item (L/ha) (min-max)				Reference standard
				0,4	0,6	**0,7**	-	
6,8 (5,2-8,3)	stem	3	56 - 63	74,4 (73-76)	84,6 (83-86)	**89,5 (89-91)**	-	88,1 (88-89)

The target **0,7 L/ha does rate can be** nonetheless **considered as the minimum effective dose**: its practical justification has been provided mainly by the use against SCLESC in the same crop.

The zRMS overall conclusion on the Minimum Effective Dose:

Based on the respective trials submitted by the applicant the dose rates of 0,8 L/ha and 0,7 L/ha should be considered as the minimum effective dose rates for the uses claimed in cereals and in the oilseed rape, respectively.

3.2.3 Efficacy tests (KCP 6.2)

Trials in this dossier were carried out by contractor companies and official research institutes, all of which following the EPPO guidelines and are officially recognized by the competent authorities to carry out field registration trials in accordance with the principles of Good Experimental Practice (GEP). Relevant GEP certificates from the contractor companies and the official country testing organizations mentioned above are located in the Biological Assessment Dossier of ADM.3500.F.2.B (Reference KIIIA 6.0/1).

In this section results are presented for efficacy of ADM.3500.F.2.B against fungal pathogens on cereals. A general introduction of experimental and presentational design and detailed information about the testing facilities/organisations and their certificates of recognition is given in the BAD (Reference KIIIA 6.0/1). A summary of the specific trial and application data and the summarised results are presented below, separated by uses.

3.2.3.1 Control of *Zymoseptoria tritici*. (SEPTTR) on winter- and spring wheat (uses 1, 6, 11, 17, 28, 33, 38, 42, 45, 52)

Table 3.2.3.1-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Zymoseptoria tritici on winter- and spring wheat

EPPO zone	EU Regul. Zone	Country	Year of trial initiation			Sum
			2018	2019	2020	
Maritime	Central	CZ		6	2	**8**
		DE	10	9	4	**23**
		IE		2		**2**
		UK		2		**2**
Total Maritime			***10***	***19***	***6***	***35***
North-East	Central	PL	2	6	3	**11**
South-East	Central	HU	3	4	2	**9**
		RO		2	3	**5**
		SK		7	2	**9**
Total South-East			***3***	***13***	***7***	***23***
Total			**15**	**38**	**16**	**69**

Table 3.2.3.1-2: Location of efficacy trials in the EPPO climatic zones

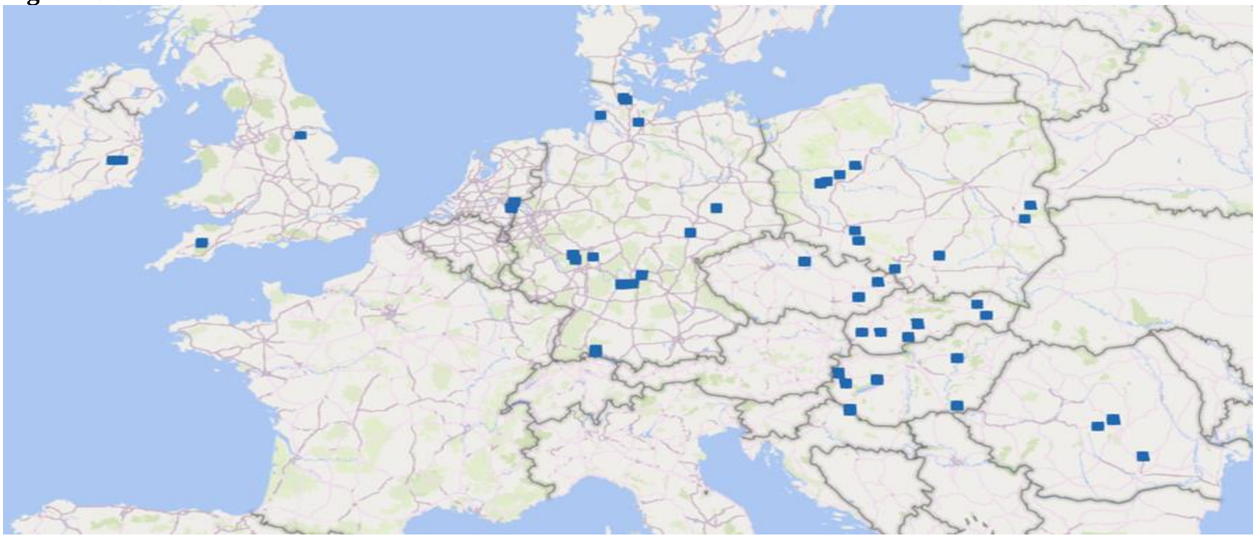
Country	EPPO zone		
	Maritime	North-East	South-East
Czech Republic (CZ)	8		
Germany (DE)	23		
Hungary (HU)			9
Ireland (IE)	2		
Poland (PL)		11	
Romania (RO)			5
Slovakia (SK)			9
United Kingdom (UK)	2		
Total	**35**	**11**	**23**

Table 3.2.3.1-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (69),
	Plot size	10-36 m²
	Number of replications	4 (69)

Crop	Trials per crop	Winter wheat (69)
	Varieties per crop	Akteur, Amicus, Anapolis, Andrada, Annie, Ariesan, Arkadia, Asano, Avenue, Békés, Benchmark, Bodycek, Boregar, Cameleon, Costello, Dekan, Dickens, Elixer, Ezopus, Falado, Filemon, Genius, Gravity, Grizzly, Hondia, Julius, Kerubino, Körös, Lenox, Lukullus, Lumos, Madejka, Ménrót, Patras, Princeps, Renan, Rumor, Sailor, Sheriff, Skagen, Smaragd, Sorial, Tobak, Tonacja, Turandot, Tytanika, Vulcanus, Zeppelin
	Sowing period	Maritime zone: from September (17) to October (30). North-East zone: from September (19) to October (18) South-East zone: September (20) to October (26)
Application	Crop stage (BBCH)* at application	1st application: 30 to 41 2nd application: 37 to 69
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (2); 2 (67)
	Spray volumes	100-400
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Zymoseptoria tritici* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from **65 to 85 (BBCH).**
Other relevant information	Natural / artificial innoculation	69 / -
	Field / Lab / GH	69 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.1-1: Distribution of trial locations



Efficacy data for the control of *Zymoseptoria tritici* on wheat are presented from 69 efficacy trials carried out in the central European regulation zone. The summarised results for different EPPO climatic zones are presented in tables 3.2.3.1-4 to 3.2.3.1-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.1-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).* (see the zRMS comment *, in the grey box below)

At the relevant assessment** (see the zRMS comment **, in the grey box below), the mean infestation in the untreated plots was 21.5 % (range: 5 % to 99 %), this represents very good conditions for product testing. The results are considered valid.

zRMS general comments on the Efficacy chapter:

*The statement: "*Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).*" is repeated in still 12 other places in the present dRR, with relevance to most uses claimed by the applicant.
It must be noticed that trials with PESSEV < 5% most often do not allow for any reliable efficacy assessment. However, the zRMS had reconsidered such instances in the individual uses and proposed alternative parts of summaries in the rare situations where the inclusion or non-inclusion of such irrelevant data seemed to matter practically indeed. The summaries proposed by the applicant are not struck off in such cases but are retained, for comparison.

**The term „relevant assessment" is used by the applicant in 61 places in the text of this dRR, most often in order to characterize the efficacy assessment time for trials summarized in a particular table. The expression is used in lieu of precise intervals of the DAA and BBCH, which should be compiled for each individual summary but are nevertheless missing*. The „relevant assessment" pertains to interval indicated in the respective EPPO guidance and it allows to, at best, assume that the assessment was carried out following requirements of the guidance (which the zRMS hereby confirms). It does not, however, allow to identify the set of trials (and set of data points from them) used to produce a particular summary. This "strategy" makes the summaries hardly verifiable based on the dRR alone, as without (at least) the assessment interval given, the origin of the declared mean values cannot be traced back precisely to the respective trial reports.
The summary tables in the BAD on the other hand, both in the MED and the Efficacy chapters, do report only the BBCH growth stage of the crops. They still send the reader to the Appendix 5 for other important details as

the application-to-assessment interval, to speak nothing of the trial identity, which is also reported exclusively in the Appendix 5 and not in the summary tables. The evaluation of the dossier by zRMS is therefore based essentially on the verified and confirmed consistency between the raw data delivered by the individual trials and the Appendix 5 of the BAD, the only place where the applicant declares which data points from particular trials have been used to produce any particular BAD summaries. Yet, since the summaries in the BAD include trials from all the EU regulatory zones, they are not equivalent to those in the dRR. Hence any further assessment of whether the dRR summaries are reliable or not is based only on comparison between the values declared in them *versus* those in the working summaries, produced by the zRMS from the Appendix 5 data by filtering out all data points not applicable for the Central zone. If not for the acknowledged status of the active substance of the ADM.03500.F.2.B, any the dossier that is only **approximately verifiable** should be rejected completely.
However, after inspecting of all trial reports separately, the zRMS declares that majority of the raw data fortunately testify in favour of the test item, whereas the unfriendly shape of the dRR is “only” the result of the applicant`s inability to compile, cross-link and present the data convincingly.

*The dRR template (version April 2015) stipulates any efficacy summary table be accompanied by some description of “the timing of assessment” (see Table 3.2-11 in that template and the comment to it below the table). Consequently, **it has been long taken for granted by most BAD authors** that the table header includes ##-##DAA (or DAB, where relevant), and the BBCH growth stage or interval.

Across the EPPO climatic zones, based on the results of 69 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 87.9 % (median 89.3; range 61.6 % to 100 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Zymoseptoria tritici* in the vast majority of trials (table 3.2.3.1-4). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 84.7 %, median: 87.1 %).

Table 3.2.3.1-4: Efficacy of ADM.3500.F.2.B against Zymoseptoria tritici on winter wheat (relevant assessment) compared to the zonal reference product(s) (assessment after two applications)

Crop	Pathogen (EPPO-code)	EPPO zone	N° of trials	Efficacy on *Zymoseptoria tritici*								
				Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
TRZAW	SEPTTR	Maritime	35	30.4	5-99	85.7	87.6	66.7-100	Proline | 0.8 Proline 275 | 0.72	82.4	86.9	54.1-100
		N-East	11	15.5	5.2-35.6	89.2	89.3	80.7-96.1	Proline | 0.8	84	84.5	70.4-97.9
		S-East	23	11.0	5.1-24.6	90.4	92	61.6-100	Proline | 0.8	88.6	91.2	60.8-100
		Across zones	**69**	**21.5**	**5-99**	**87.9**	**89.3**	**61.6-100**	**Proline | 0.8 Proline 275 | 0.72**	**84.7**	**87.1**	**54.1-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

At the time of the 2nd application (Table 3.2.3.1-4a), in the trials which could be considered, the mean level of infestation was 12.0 % (range 2.8 to 42 %). Based on the results of 54 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 79.6 % (range 0 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 78.7 %, range: 0-100 %).

Table 3.2.3.1-4a: Efficacy of ADM.3500.F.2.B against Zymoseptoria tritici on winter wheat at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	N° of trials	Efficacy on *Zymoseptoria tritici*								
				Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TRZAW	SEPTTR	Maritime	25	13.9	3.9-42.5	69.7	73.2	0-100	Proline | 0.8	70.2	73.2	0-100

									Proline 275 | 0.72			
		N-East	10	13.8	5.2-25	88.4	89.9	69-100	Proline | 0.8	86.1	84.1	69-98
		S-East	19	8.6	2.8-32.5	87.9	88.3	67-100	Proline | 0.8	85.9	86.2	59-100
		Across zones	**54**	**12.0**	**2.8-42.5**	**79.6**	**84.7**	**0-100**	**Proline | 0.8 Proline 275 | 0.72**	**78.7**	**82.1**	**0-100**

In table 3.2.3.1-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be superior to Artemis (4 results), Bumper 250 EC (2 results), Orius 20 EW, Slape Trio, and Tebusha (all 1 result), and it tends to be roughly comparable to Delaro 325 SC (7 results), Folicur (3 results), and Hutton (1 result).

Table 3.2.3.1-5: Efficacy of ADM.3500.F.2.B against Zymoseptoria tritici on winter wheat compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Zymoseptoria tritici*									
		N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TRZAW	SEPTTR	4	16.3	6.7-25	94	93.5	89-100	Artemis | 2	87.3	85.2.	80.8-84
		2	12.8	9.9-15.6	92.2		92-92.4	Bumper 250 EC | 0.5	79.1		74.9-83.2
		7	15.2	5.2-35.6	88.6	89.3	80.7-96.1	Delaro 325 SC | 1	84.9	83.3	76-98.2
		3	10.5	7.3-13.6	80.9	87.4	61.6-93.9	Folicur | 1	77.1	88.7	51.6-91
		1	28.0		83.7			Hutton | 1	80.7.		
		1	5.1		89.2			Orius 20 EW | 1	84.3		
		1	13.3	.	83.5	.		Slape Trio | 0.7	76.2		
		3	6.4	5.8-7	85.5	87.4	79.3-89.8	Tebusha 25 EW | 1	80.1	80.8	74.3-85.2

Results for the control of *Zymoseptoria tritici* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.1-4, there are no substantial differences between the climatic zones.

In 69 efficacy trials with a relevant infestation of *Zymoseptoria tritici* yield was taken. The results are presented in table 3.2.3.1-6 (quantity of yield) and table 3.2.3.1-7 (quality of yield).

Table 3.2.3.1-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference products	
			Mean	Range	Mean	Range	Mean	Range
Maritime	TRZAW	35	76.0	38.2-113.6	120	101-223	118	102-211
North-East	TRZAW	11	73.1	59.1-105.8	114	104-122	111	103-122
South-East	TRZAW	23	54.4	31.3-86.8	109	96-120	109	96-128
Across EPPO zones	**TRZAW**	**69**	**68.4**	**31.3-113.6**	**115,3**	**96-223**	**114.2**	**96-211**

Table 3.2.3.1-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		Quality parameters of yield					
		TGW		HLW		PRC	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)
Maritime	Mean	109.0	108.0	102.9	102.5	96.7	99.3
	Range	95-164	97-158	100-125	99-124	91-99	97-101
	N°	34	34	31	31	3	3
N-East	Mean	103.1	103.4	101.2	101.1		
	Range	98-111	100-111	96-104	98-104		

	Nº	10	10	10	10		
S-East	Mean	102.1	101.5	101.3	101.3	101.1	102.5
	Range	99-108	94-108	100-103	100-103		
	Nº	23	23	15	15	1	1
Across zones	**Mean**	**105.7**	**105.1**	**102.2**	**102.0**	**97.8**	**100.1**
	Range	**95-164**	**94-158**	**96-125**	**98-124**	**91-101**	**97-103**
	Nº	**67**	**67**	**56**	**56**	**4**	**4**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content

The results clearly demonstrate the benefits provided by the control of *Zymoseptoria tritici* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 15 %. In 40 of 69 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 6 %.

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Zymoseptoria tritici* on wheat.

zRMS comments:

3.2.3.1 - SEPTTR in wheat:
The data set on which the assessment is based does not include any trials in spring wheat. The efficacy is visibly lower after single compared to double application, and after single application the interzonal differences are greater. Nevertheless, the ADM.03500.F.2.B performs the level of standards. The use in wheat against *Zymoseptoria tritici* can be authorised.

3.2.3.2 Control of *Pyrenophora tritici repentis* (PYRNTR) on winter- and spring wheat (uses 1, 6, 45)

Table 3.2.3.2-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Pyrenophora tritici repentis on winter- and spring wheat

EPPO zone	EU Reg. Zone	Country	2018	2019	2020	Sum
Maritime	**Central**	CZ		1	1	**2**
		DE	2	4	5	**11**
Total Maritime			***2***	***5***	***6***	***13***
North-East	**Central**	PL		2	1	**3**
South-East	**Central**	HU		8	4	**12**
		SK			1	**1**
Total South-East			***0***	***8***	***5***	***13***
Total			**2**	**15**	**12**	**29**

Table 3.2.3.2-2: Location of efficacy trials in the EPPO climatic zones

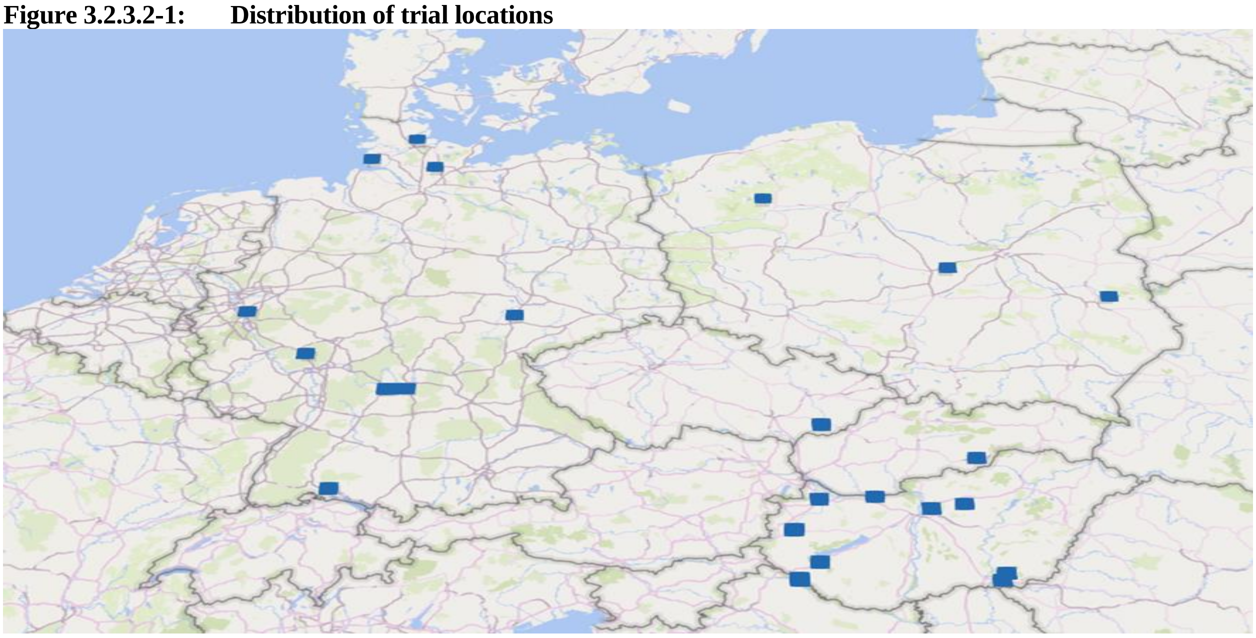
	EPPO zone		
Country	**Maritime**	**North-East**	**South-East**
Czech Republic (CZ)	2		
Germany (DE)	11		
Hungary (HU)			12
Poland (PL)		3	
Slovakia (SK)			1
Total	**13**	**3**	**13**

Table 3.2.3.2-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental	Plot design	Randomised blocks (29),

design	Plot size	14.4-30 m²
	Number of replications	4 (29)
Crop	Trials per crop	Winter wheat (29)
	Varieties per crop	Akteur, Altigo, Antonius, Benchmark, Danubia, ~~Elixer,~~ Evina, Findus, Genius, Ikva, Julius, Kolo, Körös, Ménrót, Nádor, Norin, Ostroga, Pamier, Patras, Reform, Sheriff, Smaragd, Szala, Tobak
	Sowing period	Maritime zone: from September (17) to November (04). North-East zone: from September (10) to September (28) South-East zone: October (02) to November (22)
Application	Crop stage (BBCH)* at application	1^{st} application: 29 to 41 2^{nd} application: 37 to 71
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (2); 2 (27)
	Spray volumes	200-300
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Pyrenophora tritici repentis* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from **49 to 85 (BBCH).**
Other relevant information	Natural / artificial innoculation	29 / -
	Field / Lab / GH	29 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.2-1: Distribution of trial locations



Efficacy data for the control of *Pyrenophora tritici repentis* on wheat are presented from 29 efficacy trials. The summarised results for the central European regulation zone are presented in tables 3.2.3.2-4 to 3.2.3.2-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2^{nd} application (or just before) are presented in addition (table 3.2.3.2-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 17.1 % (range: 3.3 % to 99 %), this represents just acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.2-4: Efficacy of ADM.3500.F.2.B against Pyrenophora tritici repentis on winter wheat (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Pyrenophora tritici repentis*										
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product				
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
TRZAW	PYRNTR	Maritime	13	27.2	4-99	87.2	93.5	66-100	Proline | 0.8	86.1	84.8	67-100
		N-East	3	10.6	9.1-12.3	91.7	90.2	89-96	Proline | 0.8	91.4	91.8	87-96
		S-East	13	8.4	3.3-28.1	81.0	82.7	53-100	Proline | 0.8	82.5	84.8	53-100
		Across zones	**29**	**17.1**	**3.3-99**	**84.9**	**85.4**	**53-100**	**Proline | 0.8**	**85.0**	**86.2**	**53-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 29 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 84.9 % (median 85.4 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Pyrenophora tritici repentis* in the majority of the trials (table 3.2.3.2-4). The performance is fully comparable to the performance provided by the zonal reference product Proline (200 g/ha prothioconazole - mean: 85.0 %, median: 86.2 %).

Table 3.2.3.2-4a: Efficacy of ADM.3500.F.2.B against Pyrenophora tritici repentis on winter wheat at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Pyrenophora tritici repentis*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TRZAW	PYRNTR	Maritime	5	8.0	2.5-20	59.5	62.5	0-95	Proline | 0.8	62.5	75	0-100
		N-East	3	8.5	7.9-9.3	77.3	76.5	67-89	Proline | 0.8	75.4	75.0	67-85
		S-East	11	5.0	2.3-12.5	88.6	89.9	73-100	Proline | 0.8	87.9	90.5	71-100
		Across zones	**19**	**6.4**	**2.3-20**	**79.2**	**88.5**	**0-100**	**Proline | 0.8**	**79.2**	**84.6**	**0-100**

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 6.4 % (range 2.3 to 20 %). Based on the results of 19 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 79.2 % (range 0 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 79.2 %, range: 0-100 %).

In table 3.2.3.2-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be slightly superior to Artemis (4 results) and it tends to be roughly comparable to Delaro (1 result), Hutton (1 result), Mirage 45 EC (4 results), and Tebusha 25 EW (4 results).

Table 3.2.3.2-5: Efficacy of ADM.3500.F.2.B against Pyrenophora tritici repentis on winter wheat compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Pyrenophora tritici repentis*									
		N°	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range

		of tri-als									
TRZAW	PYRNTR	4	11.2	5.2-28.1	74.6	80.7	53-84	Artemis | 2	69.4	84	22-88
		1	10.3	.	90.2	.	.	Delaro 325 SC | 1	91.2		
		1	14.4	.	73.3	.	.	Hutton | 1	72.2	.	.
		4	6.8	3.3-9	86.5	90.2	66-100	Mirage 45 EC | 1	82.7	81.1	69-100
		4	6.3	5.4-7.3	81.5	80	73-93	Tebusha 25 EW | 1	77.5	76.6	72-85

Results for the control of *Pyrenophora tritici repentis* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.2-4, there are no substantial differences between the climatic zones.

In 29 efficacy trials with a relevant infestation of *Pyrenophora tritici repentis* yield was taken. The results are presented in table 3.2.3.2-6 (quantity of yield) and table 3.2.3.2-7 (quality of yield).

Table 3.2.3.2-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	TRZAW	13	81.1	58.1-113.6	111.0	103-128	109.6	100-123
North-East	TRZAW	3	57.1	48.3-71.1	106.7	104-111	109.4	104-116
South-East	TRZAW	13	58.4	31.9-91	108.8	102-123	109.3	100-123
Across EPPO zones	**TRZAW**	**29**	**68.5**	**31.9-113.6**	**109.6**	**102-128**	**109.4**	**100-123**

The results clearly demonstrate the benefits provided by the control of *Pyrenophora tritici repentis* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 9 %. In 11 of 29 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference product. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 4 %.

Table 3.2.3.2-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		Quality parameters of yield					
		TGW		HLW		PRC	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product
Maritime	Mean	105.2	105.2	102.5	102.5	99.4	101.3
	Range	98-113	100-113	100-107	99-110		
	Nº	13	13	11	11	1	1
N-East	Mean	103.5	103.1	101.6	101.6		
	Range	103-105	102-104	101-102	101-103		
	Nº	3	3	3	3		
S-East	Mean	102.7	103.9	101.7	102.0		
	Range	99-111	100-122	99-111	100-110		
	Nº	13	13	9	9		
Across zones	**Mean**	**103.9**	**104.4**	**102.1**	**102.2**	**99.4**	**101.3**
	Range	**98-113**	**100-122**	**99-111**	**99-110**		
	Nº	**29**	**29**	**23**	**23**	**1**	**1**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Pyrenophora tritici repentis* on wheat.

zRMS comments:

3.2.3.2 - PYRNTR in wheat:
The data set on which the assessment is based does not include any trials in spring wheat. The efficacy is visibly lower after single compared to double application, and after single application the interzonal differences are greater. Nevertheless, in both these contexts the ADM.03500.F.2.B performs the level of standards.
As checked by the zRMS, the exclusion of 5 SE zone trials with subcritical level of UNCK infestation does alter the mean efficacy figures by < 1%.
The use in wheat against *Pyrenophora tritici-repentis* can be authorised.

3.2.3.3 Control of *Puccinia striiformis* (PUCCST) on winter- and spring wheat (uses 1, 6, 11, 17, 28, 33, 38, 42, 45, 52)

Table 3.2.3.3-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Puccinia striiformis on winter- and spring wheat

EPPO zone	EU Reg. Zone	Country	2018	2019	2020	Sum
Maritime	**Central**	CZ			1	1
		DE	3	2	3	8
		IE			1	1
		UK		2	2	4
Total Maritime			***3***	***4***	***7***	***14***
North-East	**Central**	PL	2	4	2	***8***
South-East	**Central**	HU	2	5	1	8
		RO		2	1	3
		SK			1	1
Total South-East			***2***	***7***	***3***	***12***
Total			**7**	**15**	**12**	**34**

Table 3.2.3.3-2: Location of efficacy trials in the EPPO climatic zones

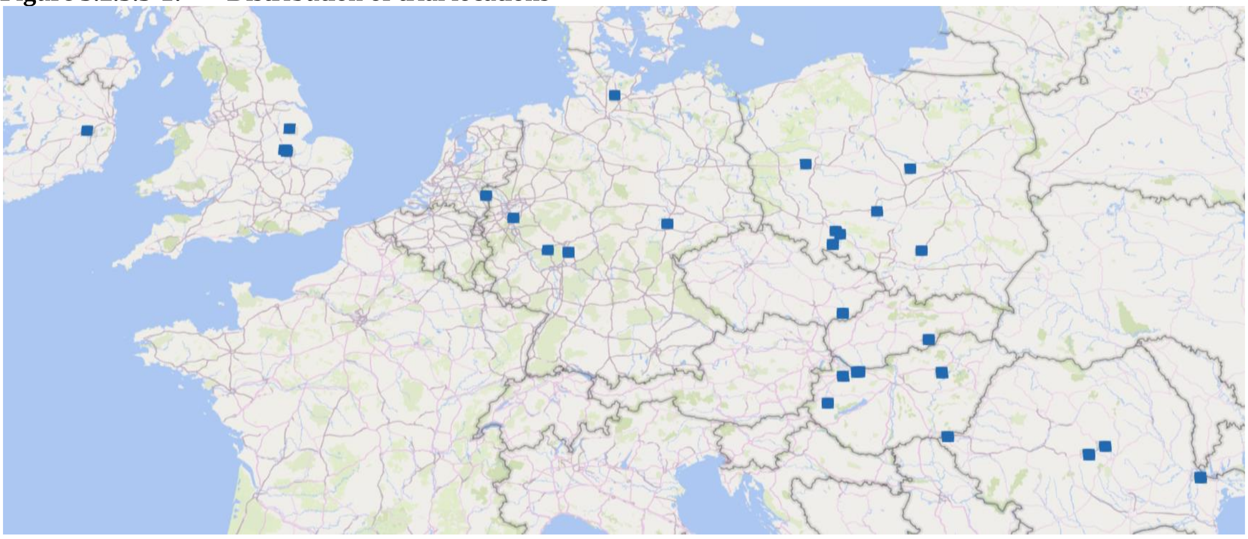
Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Czech Republic (CZ)	1		
Germany (DE)	8		
Hungary (HU)			8
Ireland (IE)	1		
Poland (PL)		8	
Romania (RO)			3
Slovakia (SK)			
United Kingdom (UK)	4		1
Total	**14**	**8**	**12**

Table 3.2.3.3-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (34),
	Plot size	13.5-37.5 m²
	Number of replications	4 (34)
Crop	Trials per crop	Winter wheat (34)
	Varieties per crop	Akteur, Antonius, Ariesan, Arkadia, Asano, Békés, Benchmark, Cordiale, Danubia, Glosa, Hondia, Inspiration, Jocker, Körös, Lukullus, Patras, Princeps, Reflection, Siskin, Skyfall, Sorial, Tallér, Torp, Trapez, Tytanika
	Sowing period	Maritime zone: from October (01) to November (04). North-East zone: from September (24) to October (10) South-East zone: October (04) to October (24)
Application	Crop stage (BBCH)* at	1st application: 31 to 63

	application	2nd application: 37 to 71
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (7); 2 (27)
	Spray volumes	100-300
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Puccinia striiformis* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 65 to 85 (BBCH).
Other relevant information	Natural / artificial innoculation	34 / -
	Field / Lab / GH	34 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.3-1: Distribution of trial locations



Efficacy data for the control of *Puccinia striiformis* on wheat are presented from 34 efficacy trials. The summarised results for the central European regulation zone are presented in tables 3.2.3.3-4 to 3.2.3.3-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.3-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 21.9 % (range: 5.3 % to 99 %), this represents just acceptable to very good conditions for product testing. The results are considered valid.

Across the EPPO climatic zones, based on the results of 34 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 88.5 % (median 91.4 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Puccinia striiformis* in the vast majority of the trials (table 3.2.3.3-4). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 87.6 %, median: 90.4 %).

Table 3.2.3.3-4: Efficacy of ADM.3500.F.2.B against Puccinia striiformis on winter wheat (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia striiformis*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
TRZAW	PUCCST	Maritime	14	34.4	6.1-99	84.2	88.5	50-99	Proline | 0.8 Proline 275 | 0.72	82.0	85.9	50-100
		N-East	8	17.9	5.4-38.4	91.3	93	74-99	Proline | 0.8	89.8	91	76-99
		S-East	12	10.1	5.3-16.1	91.6	90.9	83-100	Proline | 0.8	92.7	91.8	83-100
		Across zones	**34**	**21.9**	**5.3-99**	**88.5**	**91.4**	**50-100**	**Proline | 0.8 Proline 275 | 0.72**	**87.6**	**90.4**	**50-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Table 3.2.3.3-4a: Efficacy of ADM.3500.F.2.B against Puccinia striiformis on winter wheat at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia striiformis*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TRZAW	PUCCST	Maritime	10	15.7	3-55.9	80.0	76.9	45-100	Proline | 0.8 Proline 275 | 0.72	81.9	79.8	67-100
		Maritime	7*	21.1	5.5-55.9	**75.4**		45.5-81.4		**79.0**		69.1-93.9
		N-East	3	8.6	6.9-9.7	90.0	85.8	85-99	Proline | 0.8	89.9	85.3	84-100
		S-East	5	5.2	1.4-7.1	97.5	100.0	91-100	Proline | 0.8	97.2	100.0	88-100
		Across zones	18	11.6	1.4-55.9	86.5	88.2	45-100	**Proline | 0.8 Proline 275 | 0.72**	87.5	87.8	67-100

*3 trials with suboptimal UNCK infestation excluded

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 11.6 % (range 1.4 to 56 %). Based on the results of 18 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 86.5 % (range 45 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 87.5 %, range: 67-100 %).
In table 3.2.3.3-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be roughly comparable to Artemis (8 results), Bumper 250 EC (2 result), Folicur (2 results), and Tebusha 25 EW (4 results).

Table 3.2.3.3-5: Efficacy of ADM.3500.F.2.B against Puccinia striiformis on winter wheat compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Puccinia striiformis*									
		N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TRZAW	PUCCST	8	17.0	5.4-38.4	92.2	94.9	74-100	Artemis | 2	91.0	90.1	77-100
		2	7.1	5.8-8.5	90.9	.	88-93	Bumper 250 EC | 0.5	87.3	.	82-93
		2	14.7	13.3-16.1	92.6	.	87-99	Folicur | 1	93.2	.	88-98
		4	9.0	5.5-13.8	91.1	91	83-100	Tebusha 25 EW | 0.8-1	86.7	84.1	79-99

Results for the control of *Puccinia striiformis* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.3-4, there are no substantial differences between the climatic zones.

In 34 efficacy trials with a relevant infestation of *Puccinia striiformis* yield was taken. The results are presented in table 3.2.3.3-6 (quantity of yield) and table 3.2.3.3-7 (quality of yield).

Table 3.2.3.3-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	TRZAW	14	62.6	38.2-91.7	134.1	102-223	133.1	101-211
North-East	TRZAW	8	73.2	46.6-93.6	111.1	104-120	110.1	104-119
South-East	TRZAW	12	56.0	37.6-78.4	108.9	101-121	108.7	103-118
Across EPPO zones	**TRZAW**	**34**	**62.8**	**37.6-93.6**	**119.8**	**101-223**	**119.1**	**101-211**

The results clearly demonstrate the benefits provided by the control of *Puccinia striiformis* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 20 %. In 18 of 34 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference product. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 7 %.

Table 3.2.3.3-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		Quality parameters of yield					
		TGW		HLW		PRC	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product
Maritime	Mean	112.7	111.1	104.7	105.1	95.4	100.4
	Range	98-164	98-158	99-125	100-124	91-99	99-101
	Nº	14	14	13	13	2	2
N-East	Mean	103.6	103.8	100.3	101.0		
	Range	100-111	98-113	96-103	98-104		
	Nº	8	8	7	7		
S-East	Mean	101.8	101.2	100.8	100.8		
	Range	98-105	94-105	100-102	100-102		
	Nº	12	12	7	7		
Across zones	**Mean**	**106.7**	**105.9**	**102.6**	**102.9**	**95.4**	**100.4**
	Range	**98-164**	**94-158**	**96-125**	**98-124**	**91-99**	**99-101**
	Nº	**34**	**34**	**27**	**27**	**2**	**2**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Puccinia striiformis* on wheat.

zRMS comments:

3.2.3.3 – PUCCST in wheat:
The data set on which the assessment is based does not include any trials in spring wheat. The efficacy in the Maritime zone is slightly lower after single compared to double application (-4,2%), and as checked by the zRMS, after exclusion of 3 trials with suboptimal UNCK infestation it gets reduced further by 4,6%, also slightly widening the distance between the test item and the Proline standards (see the additional row in the Table 3.2.3.3-4a). Otherwise in both these contexts the ADM.03500.F.2.B performs the level of standards.

The use in winter wheat against *Puccinia striiformis* can be authorised.

3.2.3.4 Control of *Puccinia triticina* (PUCCRT / PUCCRE) on winter- and spring wheat (uses 1, 6, 11, 17, 28, 33, 38, 42, 45, 52)

Table 3.2.3.4-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Puccinia triticina on winter- and spring wheat

EPPO zone	EU Reg. Zone	Country	2018	2019	2020	Sum
Maritime	**Central**	AT		1		1
		CZ		6	2	8
		DE	10	5		15
Total Maritime			***10***	***12***	***2***	***24***
North-East	**Central**	PL		5	2	7
South-East	**Central**	HU	1	5		6
		RO		2		2
		SK		6		6
Total South-East			***1***	***13***	***0***	***14***
Total			**11**	**30**	**4**	**45**

Table 3.2.3.4-2: Location of efficacy trials in the EPPO climatic zones

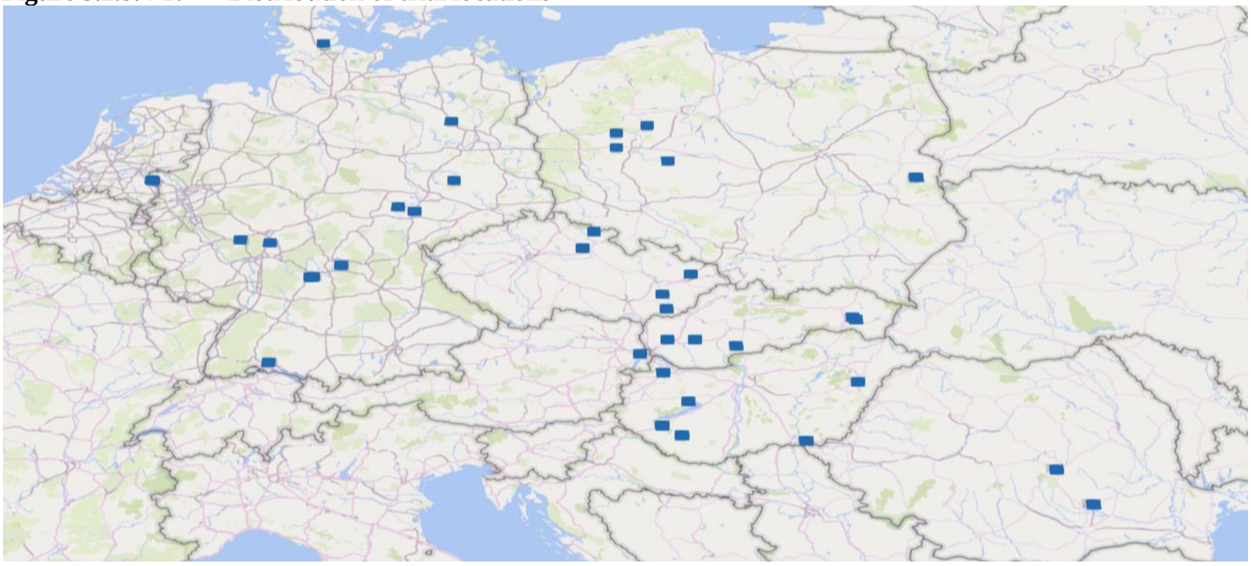
Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Austria (AT)	1		
Czech Republic (CZ)	8		
Germany (DE)	15		
Hungary (HU)			6
Poland (PL)		7	
Romania (RO)			2
Slovakia (SK)			6
Total	**24**	**7**	**14**

Table 3.2.3.4-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (45),
	Plot size	10-30 m²
	Number of replications	4 (45)
Crop	Trials per crop	Winter wheat (45)
	Varieties per crop	Acteur, Akteur, ~~Aleksander,~~ Altigo, Anapolis, ~~Andrada,~~ Annie, Arkadia, Asano, ~~Belissa,~~ Benchmark, Bernstein, ~~Bohemia,~~ Boregar, Danubia, Dekan, ~~Discus,~~ Ezopus, Genius, Grizzly, Hasáb, Julius, Kolo, Lenox, Lukullus, Madejka, Ménrót, Midas, Monopol, Patras, Sacramento, Skagen, Tobak
	Sowing period	Maritime zone: from September (25) to November (04). North-East zone: from September (20) to October (17) South-East zone: September (26) to November (11)
Application	Crop stage (BBCH)* at application	1st application: 30 to 63 2nd application: 37 to 71
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (4); 2 (41)
	Spray volume	150-400
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Puccinia triticina* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 49 to 85 (BBCH).
Other relevant	Natural / artificial	45 / -

information	innoculation	
	Field / Lab / GH	45 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.4-1: Distribution of trial locations



Efficacy data for the control of *Puccinia triticina* on wheat are presented from 45 efficacy trials. The summarised results for the central European regulation zone are presented in tables 3.2.3.4-4 to 3.2.3.4-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.4-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 23.3 % (range: 4.8 % to 99 %), this represents just acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.4-4: Efficacy of ADM.3500.F.2.B against Puccinia triticina on winter wheat (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia triticina*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
TRZAW	PUCCRT	Maritime	24	26.7	4.8-99	86.6	86.8	65-100	Proline | 0.8	84.6	87.6	46-100
		N-East	7	27.7	5.8-58.8	92.0	92.2	82-100	Proline | 0.8	89.2	89.3	75-100
		S-East	14	15.1	5.1-53.2	86.4	87.6	35-100	Proline | 0.8	81.8	85	9-100
		Across zones	**45**	**23.3**	**4.8-99**	**87.4**	**87.9**	**35-100**	**Proline | 0.8**	**84.4**	**87.5**	**9-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 45 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 87.4 % (median 87.9 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Puccinia triticina* in the vast majority of the trials (table 3.2.3.4-4). The performance is fully comparable to the performance provided by the zonal reference product Proline (200 g/ha prothioconazole - mean: 84.4 %, median: 87.5 %).

Table 3.2.3.4-4a: Efficacy of ADM.3500.F.2.B against Puccinia triticina on winter wheat at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia triticina*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TRZAW	PUCCRT	Maritime	6	11.1	1-36.8	87.4	100.0	35-100	Proline | 0.8	87.4	100	35-100
		N-East	4	10.4	3.3-25	92.4	100.0	69-100	Proline | 0.8	89.6	99.4	60-100
		S-East	6	8.3	2.5-18.5	82.1	91.1	38-100	Proline | 0.8	78.6	89.9	39-100
		Across zones	16	9.8	1.0-36.8	86.6	100.0	35-100	**Proline | 0.8**	84.6	99.4	35-100

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 9.8 % (range 1.0 to 37 %). Based on the results of 16 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 86.6 % (range 35 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 84.6 %, range: 35-100 %).

In table 3.2.3.4-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be superior to Bumper 250 EC (2 results) and Folicur (1 result), it tends to be roughly comparable to Delaro 325 EC (5 results), Slape Trio (1 result), and Tebusha 25 EW (2 results), and it tends to be inferior to Artemis (3 results), and Hutton (1 result).

Table 3.2.3.4-5: Efficacy of ADM.3500.F.2.B against Puccinia triticina on winter wheat compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Puccinia triticina*									
		N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TRZAW	PUCCRT	3	6.3	5.1-7.7	68.0	83.8	35-85	Artemis | 2	90.7	96.5	75-100
		2	11.5	6.5-16.5	88.4	.	88-89	Bumper 250 EC | 0.5	80.3	.	80-81
		5	31.2	5.8-58.8	94.3	95.5	86-100	Delaro 325 SC | 1	93.8	96	87-98
		1	7.1	.	84.7	.	.	Folicur | 1	79.1	.	.
		1	34.0	.	75.7	.	.	Hutton | 1	86.5	.	.
		1	5.0	.	80.0	.	.	Slape Trio | 0.7	80.0	.	.
		2	12.1	9.6-14.5	97.8	.	96-100	Tebusha 25 EW | 0.8-1	97.9	.	96-100

Results for the control of *Puccinia triticina* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.4-4, there are no substantial differences between the climatic zones.

In 45 efficacy trials with a relevant infestation of *Puccinia triticina* yield was taken. The results are presented in table 3.2.3.4-6 (quantity of yield) and table 3.2.3.4-7 (quality of yield).

Table 3.2.3.4-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	TRZAW	24	65.3	29.9-105	120.9	103-223	120.2	106-211
North-East	TRZAW	7	70.1	66.3-76.4	114.8	108-124	111.7	106-118
South-East	TRZAW	14	48.3	31.3-60.1	111.8	101-126	112.4	100-128
Across EPPO zones	**TRZAW**	**45**	**60.7**	**29.9-105**	**117.1**	**101-223**	**116.4**	**100-211**

Table 3.2.3.4-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		Quality parameters of yield					
		TGW		HLW		PRC	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product
Maritime	Mean	109.1	108.5	103.9	104.0	101.0	101.0
	Range	95-164	97-158	100-125	99-124	99-104	97-104
	N°	24	24	18	18	3	3
N-East	Mean	103.6	103.6	102.6	102.5		
	Range	101-106	102-106	101-105	101-105		
	N°	7	7	7	7		
S-East	Mean	105.6	105.8	100.8	101.6	101.1	102.5
	Range	100-114	100-122	82-111	89-110		
	N°	14	14	12	12	1	1
Across zones	**Mean**	**107.1**	**106.9**	**102.6**	**103.0**	**101.0**	**101.4**
	Range	**95-164**	**97-158**	**82-125**	**89-124**	**99-104**	**97-104**
	N°	**45**	**45**	**37**	**37**	**4**	**4**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content

The results clearly demonstrate the benefits provided by the control of *Puccinia triticina* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 17 %. In 25 of 45 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference product. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 7 %.

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Puccinia triticina* on wheat.

zRMS comments:

3.2.3.4 – PUCCRT / PUCCRE in wheat:
The data set on which the assessment is based does not include any trials in spring wheat. The efficacy is fairly similar within the single compared to double application trial design, although it should be noticed that this comparison is based on only 16 trials out of 45, which show the assessment before the application B.
In both the regimens the ADM.03500.F.2.B performs the level of standards. As checked by the zRMS, the exclusion of 3 trials with suboptimal UNCK infestation (one trial *per* each EPPO zone) results in reduction of the mean, across-zones efficacy by 6,6% (to 80%) in the test item ADM.03500.F.2.B, and by 7,4% (to 77,3%) in the Proline standards (compare values across zones in the Table 3.2.3.4-4a).
The use in winter wheat against *Puccinia triticina* / *Puccinia recondita* f.sp. *triticina* can be authorised.

3.2.3.5 Control of *Blumeria graminis* (ERYSGT / ERYSGR) on winter- and spring wheat (uses 33, 38)

Table 3.2.3.5-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Blumeria graminis on winter- and spring wheat

EPPO zone	EU Reg. Zone	Country	2018	2019	2020	Sum
Maritime	**Central**	CZ		5	1	6
		DE	2	4		6
Total Maritime			***2***	***9***	***1***	***12***
North-East	**Central**	PL		4	3	7
South-East	**Central**	HU		3		3
		RO		2		2
		SK		3		3
Total South-East			***0***	***8***	***0***	***8***
Total			**2**	**21**	**4**	**27**

Table 3.2.3.5-2: Location of efficacy trials in the EPPO climatic zones

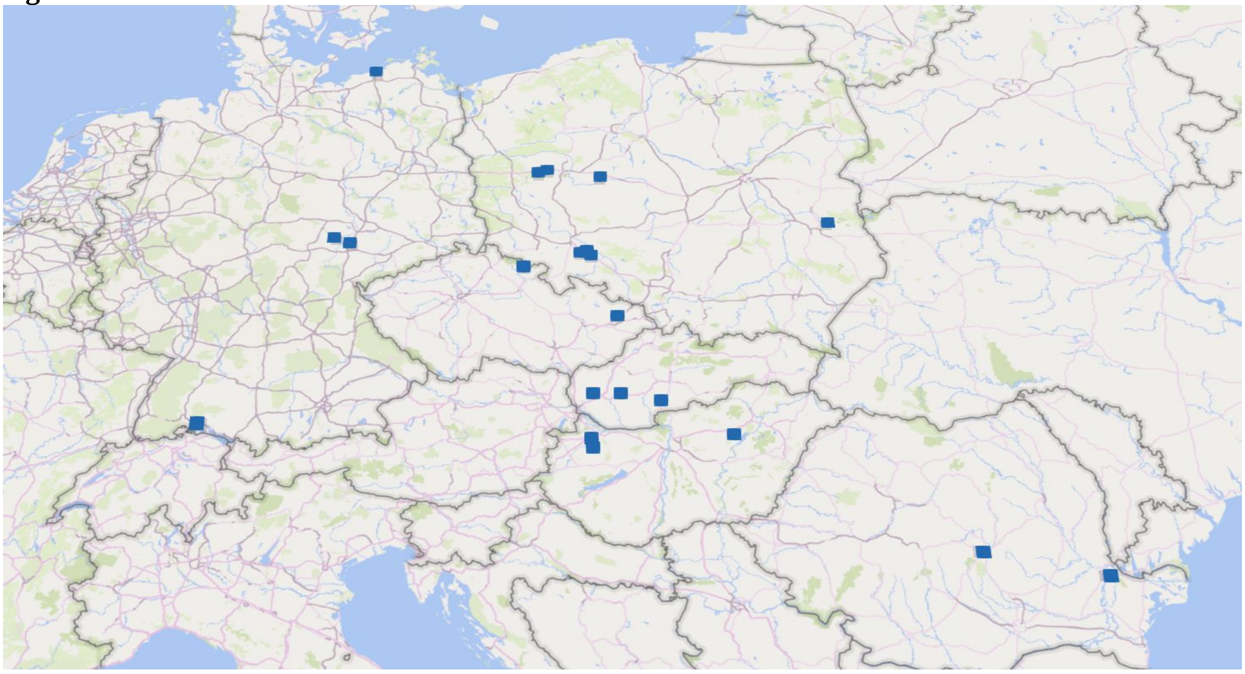
Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Czech Republic (CZ)	6		
Germany (DE)	6		
Hungary (HU)			3
Poland (PL)		7	
Romania (RO)			2
Slovakia (SK)			3
Total	**12**	**7**	**8**

Table 3.2.3.5-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (27),
	Plot size	10-30 m²
	Number of replications	4 (27)
Crop	Trials per crop	Winter wheat (27)
	Varieties per crop	Akteur, Arkadia, ~~Basilio,~~ Belissa, Bodycek, ~~Cellule,~~ Discus, Ezopus, Glosa, Hondia, Julius, Kerubino, Lukullus, Madejka, Monopol, Patras, ~~Princeps,~~ Sacramento, Tobak

	Sowing period	Maritime zone: from September (25) to October (25) North-East zone: from September (19) to October (10) South-East zone: October (01) to October (26)
Application	Crop stage (BBCH)* at application	1st application: 30 to 55 2nd application: 37 to 69
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (5); 2 (22)
	Spray volume	150-400
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Blumeria graminis* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 35 to 85 (BBCH).
Other relevant information	Natural / artificial innoculation	27 / -
	Field / Lab / GH	27 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.5-1: Distribution of trial locations



Efficacy data for the control of *Blumeria graminis* on wheat are presented from 27 efficacy trials. The summarised results for the central European regulation zone are presented in tables 3.2.3.5-4 to 3.2.3.5-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.5-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 12.9 % (range: 5 % to 58.8 %), this represents just acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.5-4: Efficacy of ADM.3500.F.2.B against Blumeria graminis on winter wheat (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
TRZAW	ERYSGT	Maritime	12	11.8	5-28.1	87.3	86.6	70-100	Proline | 0.8	81.4	86.1	36-100
		N-East	7	10.8	9.5-13.9	90.0	90.8	79-99	Proline | 0.8	86.5	87.9	74-97
		S-East	8	16.6	5-58.8	92.8	93.7	83-100	Proline | 0.8	88.9	90.5	69-100
		Across zones	**27**	**12.9**	**5-58.8**	**89.6**	**92.2**	**70-100**	**Proline | 0.8**	**85.0**	**87.9**	**36-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 27 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 89.6 % (median 92.2 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Blumeria graminis* in the vast majority of the trials (table 3.2.3.5-4). The performance is comparable to the performance provided by the zonal reference products Proline (200 g/ha prothioconazole - mean: 85 %, median: 87.9 %).

Table 3.2.3.5-4a: Efficacy of ADM.3500.F.2.B against Blumeria graminis on winter wheat at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TRZAW	ERYSGT	Maritime	6	10.0	4-22.9	74.0	67.1	49-100	Proline | 0.8	70.3	77.9	36-98
		N-East	6	14.8	7.3-24.7	86.1	87.1	79-93	Proline | 0.8	84.4	83.5	78-93
		S-East	8	11.1	2.5-25	89.6	93.9	58-100	Proline | 0.8	85.1	88.5	49-100
		Across zones	20	11.9	2.5-25	83.9	88.8	49-100	**Proline | 0.8**	80.5	84.9	36-100

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 11.9 % (range 2.5 to 25 %). Based on the results of 20 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 83.9 % (range 49 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 80.5 %, range: 36-100 %).

In table 3.2.3.5-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be superior to Bumper 250 EC (2 results), Delaro 325 EC (5 results), and Tebusha 25 EW (3 results), and it tends to be roughly comparable to Hutton (1 result) and Slape Trio (1 result).

Table 3.2.3.5-5: Efficacy of ADM.3500.F.2.B against Blumeria graminis on winter wheat compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Blumeria graminis*									
		N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TRZAW	ERYSGT	2	6.1	5.9-6.3	88.7	.	88-89	Bumper 250 EC | 0.5	71.1	.	70-72
		5	10.9	9.5-13.9	93.6	92.2	88-99	Delaro 325 SC | 1	88.5	85.1	83-97
		1	6.2	.	100.0	.	.	Hutton | 1	100.0	.	.
		1	7.5	.	96.7	.	.	Slape Trio | 0.7	96.7	.	.
		3	25.2	5.8-58.8	94.2	95.1	92-95	Tebusha 25 EW | 1	80.4	78.5	67-96

Results for the control of *Blumeria graminis* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.5-4, there are no substantial differences between the climatic zones.

In 27 efficacy trials with a relevant infestation of *Blumeria graminis* yield was taken. The results are presented in table 3.2.3.5-6 (quantity of yield) and table 3.2.3.5-7 (quality of yield).

Table 3.2.3.5-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	TRZAW	12	66.6	29.9-92.2	115.2	104-128	113.2	107-123
North-East	TRZAW	7	68.3	54.8-81.1	114.6	104-122	116.1	103-127
South-East	TRZAW	8	53.4	33.5-64.4	110.7	104-119	108.3	103-112
Across EPPO zones	**TRZAW**	**27**	**63.2**	**29.9-92.2**	**113.7**	**104-128**	**112.5**	**103-127**

Table 3.2.3.5-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		Quality parameters of yield			
		TGW		HLW	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product
Maritime	Mean	105.1	105.3	103.8	103.6
	Range	100-118	97-118	100-114	98-114
	N°	14	14	14	14
N-East	Mean	102.9	102.6	101.6	101.5
	Range	98-108	100-106	100-103	100-102
	N°	7	7	7	7
S-East	Mean	102.6	102.8	101.4	102.1
	Range	98-111	100-110	98-104	101-104
	N°	13	13	7	7
Across zones	**Mean**	**103.7**	**103.8**	**102.7**	**102.7**
	Range	**98-118**	**97-118**	**98-114**	**98-114**
	N°	**34**	**34**	**28**	**28**

TGW = Thousand grain weight; HLW = Hectolitre weight

The results clearly demonstrate the benefits provided by the control of *Blumeria graminis* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 14 %. In 14 of 27 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference product. There are no differences between

EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 4 %.

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Blumeria graminis* on wheat.

zRMS comments:

3.2.3.5 – ERYSGT / ERYSGT in wheat:
The data set on which the assessment is based does not include any trials in spring wheat. The efficacy is clearly lower within the single compared to double application regimen, although it is still comparable or higher than that of standards, even following single application (Table 3.2.3.5-4a).
As checked by the zRMS, the exclusion of 1 trial with suboptimal UNCK infestation in the SE EPPO zone results in reduction of the mean efficacy in that zone by <1% in the test item and by 1,1% in the Proline standards.
The use in winter wheat against *Erysiphe graminis* / *Erysiphe graminis* f.sp. *tritici* can be authorised.

3.2.3.6 Control of *Fusarium* sp. (FUSASP) on winter- and spring wheat (uses 1, 6, 11, 17, 28, 33, 38, 42, 45, 52)

Table 3.2.3.6-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Fusarium sp. on winter- and spring wheat

EPPO zone	EU Reg. Zone	Country	2019	2020	Sum
Maritime	**Central**	CZ	2		2
		DE	1		1
		UK	2	2	4
		IE	1	1	2
Total Maritime			***6***	***3***	***9***
North-East	**Central**	PL	3		**3**
South-East	**Central**	HU	2		2
		RO	2		2
		SK	2	1	3
Total South-East			***6***	***1***	***7***
Total			**15**	**4**	**19**

Table 3.2.3.6-2: Location of efficacy trials in the EPPO climatic zones

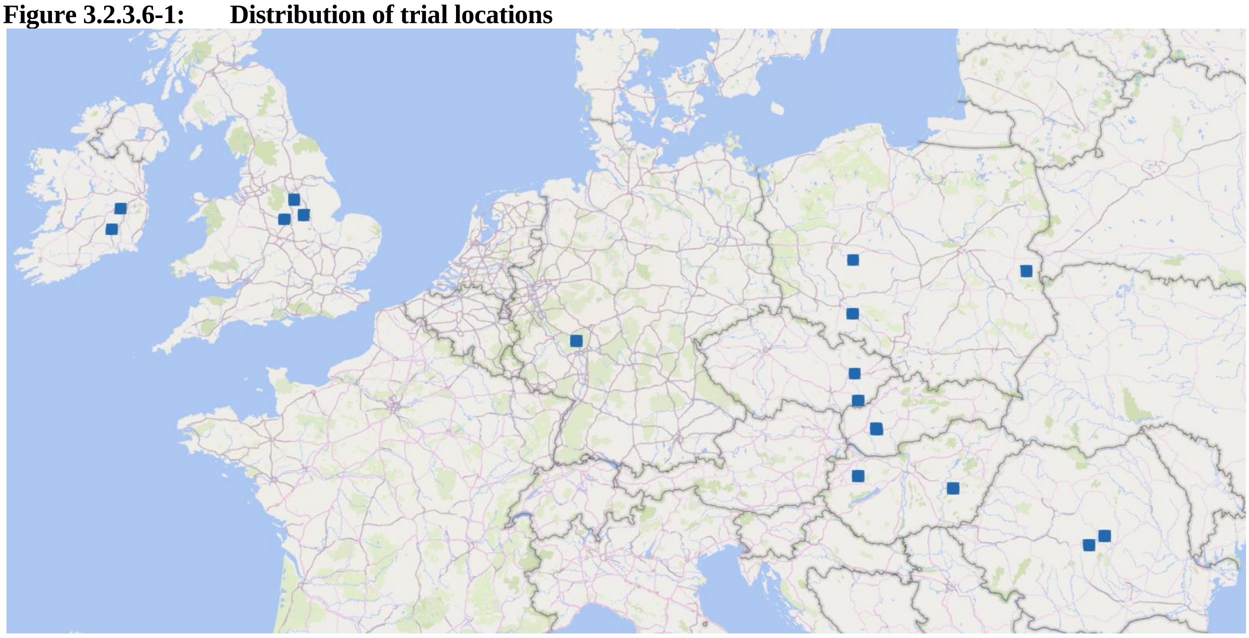
Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Czech Republic (CZ)	2		
Germany (DE)	1		
Hungary (HU)			2
Ireland (IE)	2		
Poland (PL)		3	
Romania (RO)			2
Slovakia (SK)			3
United Kingdom (UK)	4		
Total	**9**	**3**	**7**

Table 3.2.3.6-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (19),
	Plot size	12-30 m²
	Number of replications	4 (19)
Crop	Trials per crop	Winter wheat (19)
	Varieties per crop	Belissa, Diego, Genius, Hondia, Illustriuos, Ilona, Kerrin, Lukullus, Renan, Skyscraper, Sorial, Szilárd, Tobak, Torp, Zyatt
	Sowing period	Maritime zone: from September (10) to October (26) North-East zone: from September (12) to October (06) South-East zone: September (28) to October (26)
Application	Crop stage (BBCH)* at application	1st application: 59 to 69
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (19); 2 (-)
	Spray volumes	200-400
Assessment	Assessment types	% of pest severity; % of pest incidence
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Fusarium sp.* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 75 to 89 (BBCH). Grain infection was rated at crop GS 99 after harvest
Other	Natural / artificial	3 / 16

relevant information	innoculation	
	Field / Lab / GH	19 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.6-1: Distribution of trial locations



Efficacy data for the control of *Fusarium sp.* on wheat are presented from 27 efficacy trials. The summarised results for the central European regulation zone are presented in tables 3.2.3.6-4 to 3.2.3.6-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.

The mean infestation in the untreated plots was 27.1 % pest severity on ears (range: 5.1 % to 66 %), 66 % pest incidence on ears (range: 14.5 % to 100 %), and 15.6 % pest incidence on grains (range: 0.3 % to 75.6 %). This represents just acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.6-4: Efficacy of ADM.3500.F.2.B against Fusarium sp. on winter wheat compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Fusarium sp.*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
Pest severity on ears												
TRZAW	FUSASP	Maritime	9	45.8	18.8-100	58.1	60.8	17-81	Proline | 0.8 Proline 275 | 0.72	50.6	54.8	13-77
		N-East	3	13.4	6.4-21.9	92.9	93	87-99	Proline | 0.8	91.5	90.5	86-98
		S-East	7	8.8	5.1-12.3	77.4	86.2	18-91	Proline | 0.8	76.1	85.2	13-92
		Across zones	**19**	**27.1**	**5.1-100**	**70.7**	**81**	**17-99**	**Proline | 0.8 Proline 275 | 0.72**	**66.4**	**77.2**	**13-98**
Pest incidence on ears												
TRZAW	FUSASP	Maritime	9	82.1	21.5-100	21.2	4.1	0-69	Proline | 0.8 Proline 275 | 0.72	16.1	5	0-47
		N-East	3	43.7	14.5-69.5	87.7	87.9	81-95	Proline | 0.8	83.3	82.8	78-89
		S-East	3	39.9	22.3-63	73.8	85.4	48-88	Proline | 0.8	74.3	84.3	52-86
		Across zones	**15**	**66.0**	**14.5-100**	**45.1**	**48.4**	**0-95**	**Proline | 0.8 Proline 275 | 0.72**	**41.2**	**41.9**	**0-89**
Pest incidence on grains												
~~TRZAW~~	~~FUSASP~~	~~Maritime~~	~~7~~	~~22.1~~	~~2.1-75.6~~	~~43.3~~	~~42.3~~	~~6-67~~	~~Proline | 0.8~~ ~~Proline 275 | 0.72~~	~~44.7~~	~~42.6~~	~~28-58~~
		~~N-East~~	~~2~~	~~6.3~~	~~5.8-6.8~~	~~100.0~~	~~.~~	~~100-100~~	~~Proline | 0.8~~	~~100.0~~	~~.~~	~~100-100~~
		~~S-East~~	~~7~~	~~11.7~~	~~0.3-30~~	~~85.9~~	~~85.8~~	~~62-100~~	~~Proline | 0.8~~	~~77.6~~	~~77.5~~	~~38-100~~
		~~**Across zones**~~	~~**16**~~	~~**15.6**~~	~~**0.3-75.6**~~	~~**69.0**~~	~~**72**~~	~~**6-100**~~	~~**Proline | 0.8**~~ ~~**Proline 275 | 0.72**~~	~~**66.0**~~	~~**62.5**~~	~~**28-100**~~
TRZAW	FUSASP	Maritime	7	**25.7**		**51.5**				**48.7**		
		N-East	4*	**14.2**		**80.7**				**80.7**		
		S-East	4	**20.2**		**75.3**				**69.1**		
		Across zones	15	**21.0**		**66.3**				**62.9**		

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control
*2 PL trials + 2 LV trials: LV19FETRZAX491A and LV19FETRZAX491B

Across the EPPO climatic zones, based on the results of 19 trials, the mean reduction of pest severity of *Fusarium species* on ears by ADM.3500.F.2.B applied at 0.8 L/ha was 70.7 % (median 81 %, range 17 % to 99 %). The treatment led to a mean reduction of 45.1 % of infested ears (15 results) and 69 % of infested grains (15 results). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Fusarium sp.* in the majority of the trials (table 3.2.3.6-4). The performance is comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole – pest reduction means: 66.4 % severity on ears, 41.2 % incidence on ears, 66 % incidence on grains).

Table 3.2.3.6-5: Efficacy of ADM.3500.F.2.B against Fusarium sp. on winter wheat compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Fusarium sp.*									
		N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
Pest severity on ears											
TRZAW	FUSASP	2	6.6	6-7.3	87.5	.	86-89	Bumper 250 EC | 0.5	75.2	.	74-77
		3	13.4	6.4-21.9	92.9	93	87-99	Delaro 325 SC | 1	94.1	92.4	90-100
		1	12.3	.	17.6	.	.	Orius 20 EW | 1	8.8	.	.

		1	9.8	.	84.6	.	.	Tebusha 25 EW | 1	84.9	.	.
Pest incidence on ears											
TRZAW	FUSASP	2	28.4	22.3-34.5	86.5	.	85-88	Bumper 250 EC | 0.5	71.8	.	70-74
		3	43.7	14.5-69.5	87.7	87.9	81-95	Delaro 325 SC | 1	92.1	95.7	81-100
		1	63.0	.	48.4	.	.	Tebusha 25 EW | 1	50.0	.	.
Pest incidence on grains											
TRZAW	FUSASP	2	14.3	13.3-15.3	81.4	.	77-86	Bumper 250 EC | 0.5	75.6	.	74-77
		2	6.3	5.8-6.8	100.0	.	100-100	Delaro 325 SC | 1	100.0	.	100-100
		1	30.0	.	76.7	.	.	Orius 20 EW | 1	54.2	.	.
		1	22.1	.	61.7	.	.	Tebusha 25 EW | 1	26.7	.	.

Compared to the additionally applied reference products, ADM.3500.F.2.B tends to be superior to Bumper 250 EC (2 results), and it tends to be roughly comparable to Delaro 325 SC (3 results), Orius 20 EW (1 result) and Tebusha 25 EW (1 result) – (table 3.2.3.6-5).

Results for the control of *Fusarium sp.* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.6-4, there are no substantial differences between the climatic zones. Differences of means are a consequence of the high variability of the results.

In 19 efficacy trials with a relevant infestation of *Fusarium sp.* yield was taken. The results are presented in table 3.2.3.6-6 (quantity of yield) and table 3.2.3.6-7 (quality of yield).

Table 3.2.3.6-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	TRZAW	9	77.0	45.5-108.3	118.9	104-155	117.4	103-151
North-East	TRZAW	3	66.4	55.3-84.6	113.2	109-118	112.0	108-115
South-East	TRZAW	7	50.7	27.3-64.1	108.4	102-118	107.1	102-114
Across EPPO zones	**TRZAW**	**19**	**65.6**	**27.3-108.3**	**114.1**	**102-155**	**112.8**	**102-151**

The results clearly demonstrate the benefits provided by the control of *Fusarium sp.* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 14 %. In 5 of 19 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no substantial differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 5.5 %. The control of *Fusarium* by ADM.3500.F.2.B, applied at 0.8 L/ha, clearly reduces the content of mycotoxins in wheat grains.

Table 3.2.3.6-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

		Quality parameters of yield					
		TGW		HLW		DON (% content relative to UNCK)	
EPPO zone		**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**
Maritime	Mean	109.4	109.2	104.7	104.6	34.3	34.9
	Range	100-136	98-134	100-115	100-115	17-63	13-64
	N°	9	9	9	9	7	7
N-East	Mean	103.2	103.0	101.7	101.8	28.7	24.2
	Range	102-105	102-105	101-102	101-102	29-29	24-24
	N°	3	3	3	3	1	1
S-East	Mean	101.5	101.7	101.8	101.3	57.1	55.7
	Range	100-102	100-106	102-102	101-101	20-80	12-105
	N°	7	7	1	1	5	5

Across zones	**Mean**	**105.5**	**105.5**	**103.8**	**103.7**	**42.6**	**42.1**
	Range	**100-136**	**98-134**	**100-115**	**100-115**	**17-80**	**12-105**
	Nº	**19**	**19**	**13**	**13**	**13**	**13**

TGW = Thousand grain weight; HLW = Hectolitre weight; DON = Deoxynivalenol content

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Fusarium sp.* on wheat.

zRMS comments:

3.2.3.6 – FUSASP in wheat:
Overall, the efficacy assessed from **PESSEV** on ears is by >30% lower in the Maritime compared to NE, and close to 20% lower compared to the SE zone (Table 3.2.3.6-4). The efficacy in the NE EPPO zone is based on 3 trials only and as such may be overestimated. Instead, the across-zones figure of 70,7% (n=19) seems to be more reliable an estimate of the ADM.03500.F.2.B ability to control *Fusarium* in wheat in the Central Zone.
Following the rather poor efficacy measured as **PESINC** control on ears in the Maritime (21.2%), the control of pathogen`s incidence on harvested grain is apparently lower in that zone (51.5%; Table 3.2.3.6-4, bottom section "Pest incidence on grains" as amended by zRMS).
The observed low performance of the test item in the Maritime zone goes hand in hand with that of the reference standards, but it does not translate plainly into reduction of the mycotoxin content, which is found to be approximately by 65% compared to the UNCK (Maritime, test item as much as the standards, Table 3.2.3.6-7). In the SE zone the reduction is by 43-44% only (*ibid.*), in spite of the higher control of the target`s severity and incidence compared to Maritime zone (77% and ca 74% efficacy, Table 3.2.3.6-4), and the reduction of mycotoxin content in the NE EPPO zone is 71% relative to the UNCK, yet this is based on a single PL trial with approximately 90% control efficacy (averaged between severity and incidence control).`

In the Maritime and SE EPPO zones the claim of the use against FUSASP is based on the number of trials >6. In the NE zone only 5 trials are available, two of them already excluded by the applicant and only one of the remaining 3 including mycotoxin data. The data on mycotoxin content and its reduction are scanty overall, probably due to an assumption taken by the applicant, that the status of the active contained in the ADM.03500.F.2.B is already known and no particularly extensive data is needed. But the available data are inconsistent too, the fact that is poorly represented by the extremely concise last column of the Table 3.2.3.6-7, showing percentage of mycotoxin content relative to the UNCK and missing the absolute concentration values. Mycotoxin data from the NE zone outside of the Central Zone (LV) might have been used by the applicant as supportive data in order to present the situation more broadly and to improve the picture of the mycotoxin reduction to the advantage of the test item. Unfortunately, they are only available in the BAD.
To the opinion of zRMS, the cMSs of the Maritime and the SE zones may not necessarily consider the levels of pathogen control (Mar) and mycotoxin reduction (SE) as acceptable. The decision on authorization of the use in these zones is therefore kindly left to the respective cMSs. Poland, as the zRMS and the only CZ cMS in the NE zone, may accept the use based on a the NE zone data plus a number of data points from the supporting Czech Republic, DE and SK trials, resulting in the averaged efficacy of 76.6 / 74/1% (test / stdrd), at the mean PESSEV 35.8% in the UNCK (n=7).

3.2.3.7 Control of *Rhynchosporium secalis* (RHYNSE) on winter- and spring barley (uses 2, 7, 12, 18, 29, 34, 39, 43, 46, 53)

Table 3.2.3.7-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Rhynchosporium secalis on winter- and spring barley

EPPO zone	EU Reg. Zone	Country	2018	2019	2020	Sum
Maritime	**Central**	CZ	2	1		3
		DE	2	3	2	7
		UK		3	1	4
		IE		2	1	3
Total Maritime			***4***	***9***	***4***	***17***
North-East	**Central**	PL		5	2	**7**
South-East	**Central**	HU	2	4	1	7
		RO		2	1	3
		SK	1	1	1	3
Total South-East			***3***	***7***	***3***	***13***
Total			**7**	**21**	**9**	**37**

Table 3.2.3.7-2: Location of efficacy trials in the EPPO climatic zones

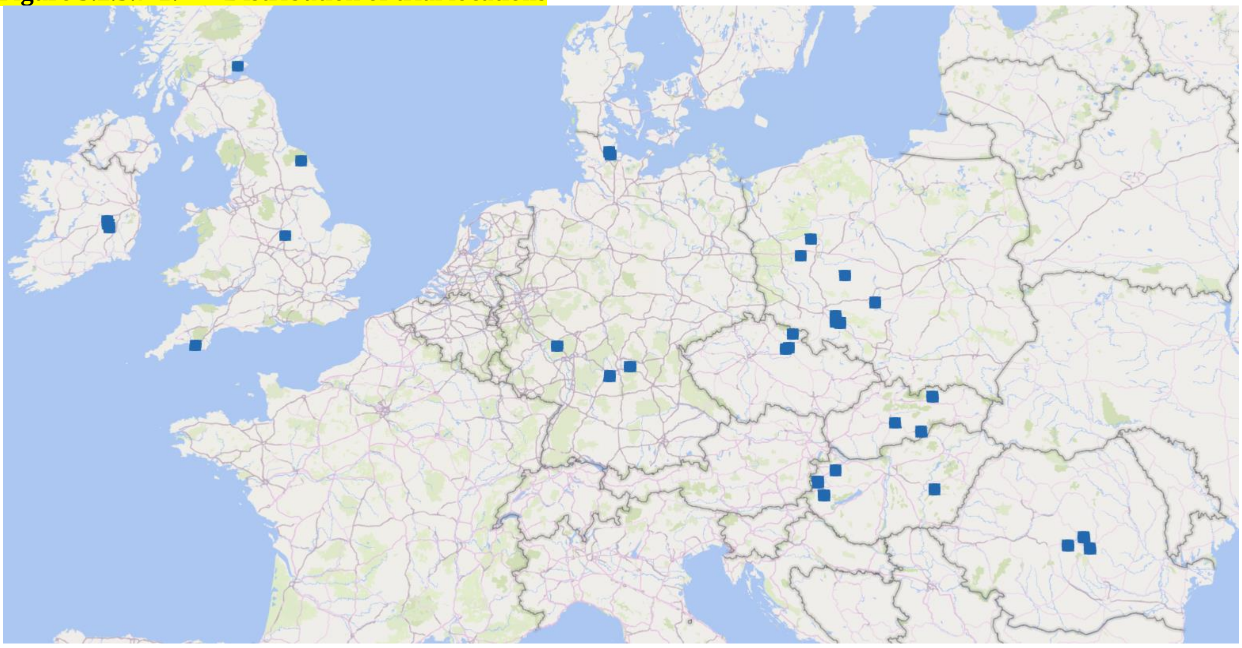
	EPPO zone		
Country	**Maritime**	**North-East**	**South-East**
Czech Republic (CZ)	3		
Germany (DE)	7		
Hungary (HU)			7
Ireland (IE)	3		
Poland (PL)		7	
Romania (RO)			3
Slovakia (SK)			3
United Kingdom (UK)	4		
Total	**17**	**7**	**13**

Table 3.2.3.7-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (37),
	Plot size	14.4-30 m²
	Number of replications	4 (37)
Crop	Trials per crop	Spring barley (~~2~~ 3); Winter barley (~~35~~ 34)
	Varieties per crop	**Spring barley**: Bojos, Kangoo, Malz **Winterbarley**: Amazon, Bazooka, ~~Carmina,~~ Cassia, Etincel, Gerlach, Glacier, Henriette, Higgins, Holmes, Jup, Kobuz, Kosmos, KWS Keeper, Lomerit, ~~Meridian,~~ Metaxa, Palazzo, Sandra, Scala, Tatra, Tenor, Tower
	Sowing period	**Spring barley**: Maritime zone: April (07) South-East zone: March (18) **Winter barley**: Maritime zone: from September (13) to October (15) North-East zone: from September (16) to October (02) South-East zone: September(10) to October (13)
Application	Crop stage (BBCH)* at application	1st application: 30 to 61 2nd application: 37 to 67
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (8); 2 (29)
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Rhynchosporium*

		secalis infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 59 to 87 (BBCH).
Other relevant information	Natural / artificial innoculation	37 / -
	Field / Lab / GH	37 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.7-1: Distribution of trial locations



Efficacy data for the control of *Rhynchosporium secalis* on barley are presented from 37 efficacy trials. The summarised results for the central European regulation zone are presented in tables 3.2.3.7-4 to t3.2.3.7-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.7-4b). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 14.3 % (range: 5 % to 73.4 %), this represents just acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.7-4: Efficacy of ADM.3500.F.2.B against Rhynchosporium secalis on winter- and spring barley (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Rhynchosporium secalis*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
HORVW/HORVS	RHYNSE	Maritime	17	15.4	5-44.7	91.3	94.1	72-100	Proline | 0.8 Proline 275 | 0.72	89.4	91.2	71-100
		N-East	7	10.8	6.3-21.9	85.6	84.9	84-91	Proline | 0.8	84.6	84.7	79-88
		S-East	13	14.6	5.1-73.4	91.4	91.5	82-100	Proline | 0.8	92.8	92.4	80-100
		Across zones	**37**	**14.3**	**5-73.4**	**90.3**	**91.1**	**72-100**	**Proline | 0.8 Proline 275 | 0.72**	**89.7**	**89.8**	**71-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product

5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 37 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 90.3 % (median 91.1 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Rhynchosporium secalis* in the vast majority of the trials (table 3.2.3.7-4). The performance is comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 89.7 %, median: 89.8 %).

In table 3.2.3.7.4a an additional summary of test results on the spring form only is presented.

Table 3.2.3.7-4a: Efficacy of ADM.3500.F.2.B against Rhynchosporium secalis on and spring barley (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Rhynchosporium secalis*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
HORVS	RHYNSE	Maritime	1	6.4	.	94.8	.	.	Proline | 0.8	98.6	.	.
		S-East	1	34.5	.	99.6	.	.	Proline | 0.8	99.7	.	.
		Across zones	**2**	**20.5**	**6.4-34.5**	**97.2**	**.**	**95-100**	**Proline | 0.8**	**99.2**	**.**	**99-100**

Table 3.2.3.7-4b: Efficacy of ADM.3500.F.2.B against Rhynchosporium secalis on winter- and spring barley at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Rhynchosporium secalis*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
HORVW/HORVS	RHYNSE	Maritime	13	13.5	4.5-37	87.0	88.2	58-100	Proline | 0.8 Proline 275 | 0.72	82.3	84.6	26-100
		N-East	3	9.7	6.3-14.7	88.6	89.2	85-91	Proline | 0.8	86.0	85.5	85-88
		S-East	8	9.0	1.7-25.5	86.8	90.5	67-99	Proline | 0.8	85.2	89.5	61-98
		Across zones	**24**	**11.5**	**1.7-37**	**87.1**	**89.3**	**58-100**	**Proline | 0.8 Proline 275 | 0.72**	**83.7**	**86.7**	**26-100**

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 11.5 % (range 1.7 to 37 %). Based on the results of 24 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 87.1 % (range 58 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 83.7 %, range: 26-100 %).

In table 3.2.3.7-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be superior to Bumper 250 EC (4 results), Folicur (2 results), Tebusha 25 EW (3 results), and Zakeo Opti (1 result) and it tends to be roughly comparable to Artemis (4 results), Delaro (5 results), and Mirador Xtra (1 result).

Table 3.2.3.7-5: Efficacy of ADM.3500.F.2.B against Rhynchosporium secalis on winter barley compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Rhynchosporium secalis*									
		N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
HORVX	RHYNSE	4	7.7	6.1-8.8	86.8	85.5	85-92	Artemis | 2	87.4	86.6	85-92
		4	15.6	5.5-44.7	97.2	97.4	95-99	Bumper 250 EC | 0.5	85.5	92.9	59-97
		5	11.7	6.3-21.9	85.9	84.9	84-91	Delaro 325 SC | 1	85.0	85.8	80-92

Crop	Pathogen (EPPO-code)	Efficacy on *Rhynchosporium secalis*									
		N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
		2	10.1	5.1-15	85.1	.	84-86	Folicur | 1	80.3	.	76-85
		1	5.9	.	72.1	.	.	Mirador Xtra | 0.75	70.2	.	.
		3	7.2	6.1-9.1	88.8	92.2	82-92	Tebusha 25 EW | 1	78.1	76.4	76-82
		1	12.2	.	96.6	.	.	Zakeo Opti | 2.5	77.4	.	.

Results for the control of *Rhynchosporium secalis* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.7-4, there are no substantial differences between the climatic zones.

In 37 efficacy trials (35 in winter barley, 2 in spring barley) with a relevant infestation of *Rhynchosporium secalis* yield was taken. The results are presented in table 3.2.3.7-6 (quantity of yield) and table 3.2.3.7-7 (quality of yield).

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Table 3.2.3.7-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	HORVW	16	76.0	56.7-95.6	115.9	91-159	117.1	96-156
	HORVS	1	60.0	.	106.2	.	104.7	.
North-East	HORVW	7	72.6	55.5-89.5	114.0	102-127	112.1	100-125
South-East	HORVW	12	52.1	32.6-81	109.5	105-128	109.1	102-125
	HORVS	1	57.2	.	130.0	.	127.9	.
Across EPPO zones	***HORVW***	***35***	***67.1***	***32.6-95.6***	***113.3***	***91-159***	***113.3***	***96-156***
	HORVS	***2***	***58.6***	***57.2-60***	***118.1***	***106-130***	***116.3***	***105-128***
	HORVX	**37**	**66.7**	**32.6-95.6**	**113.6**	**91-159**	**113.5**	**96-156**

The results clearly demonstrate the benefits provided by the control of *Rhynchosporium secalis* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 13.6 %. In 14 of 37 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 4 %.

Table 3.2.3.7-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

		Quality parameters of yield			
		TGW		HLW	
EPPO zone		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product
Maritime	Mean	105.1	105.3	103.8	103.6
	Range	100-118	97-118	100-114	98-114
	Nº	14	14	14	14
N-East	Mean	102.9	102.6	101.6	101.5
	Range	98-108	100-106	100-103	100-102
	Nº	7	7	7	7
S-East	Mean	102.6	102.8	101.4	102.1
	Range	98-111	100-110	98-104	101-104
	Nº	13	13	7	7
Across zones	**Mean**	**103.7**	**103.8**	**102.7**	**102.7**
	Range	**98-118**	**97-118**	**98-114**	**98-114**
	Nº	**34**	**34**	**28**	**28**

TGW = Thousand grain weight; HLW = Hectolitre weight

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Rhynchosporium secalis* on barley.

zRMS comments:

3.2.3.7 – RHYNSE in winter and spring barley:
The data set on which the assessment is based includes 3 trials in spring barley, one in SK and 2 in CZ. The efficacy was slightly lower after single compared to double application, but the test item performed the level comparable to the standards Proline and Proline 275 (Tables 3.2.3.7-4, …4a, …4b). The single-application dataset includes just one trial with suboptimal UNCK infestation (1,7%). Excluding it does not alter the mean efficacy in the SE EPPO zone in any significant way. Except for the NE zone in double-application assessment (Table 3.2.3.7-4) the inter-zonal differences are negligible.

The use in winter and spring barleye against *Rhynchosporium secalis* can be authorised.

3.2.3.8 Control of *Pyrenophora teres* (~~PYRNTR~~ PYRNTE) on winter- and spring barley (uses 2, 7, 12, 18, 29, 34, 39, 43, 46, 53)

Table 3.2.3.8-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Pyrenophora teres on winter- and spring barley

EPPO zone	EU Reg. Zone	Country	2018	2019	2020	Sum
Maritime	**Central**	CZ	4	5	4	13
		DE	5	4	2	11
		UK		1	1	2
Total Maritime			***9***	***10***	***7***	***26***
North-East	**Central**	PL		5	3	**8**
South-East	**Central**	HU	3	4		7
		RO		2		2
		SK	1	2	3	6
Total South-East			***4***	***8***	***3***	***15***
Total			**13**	**23**	**13**	**49**

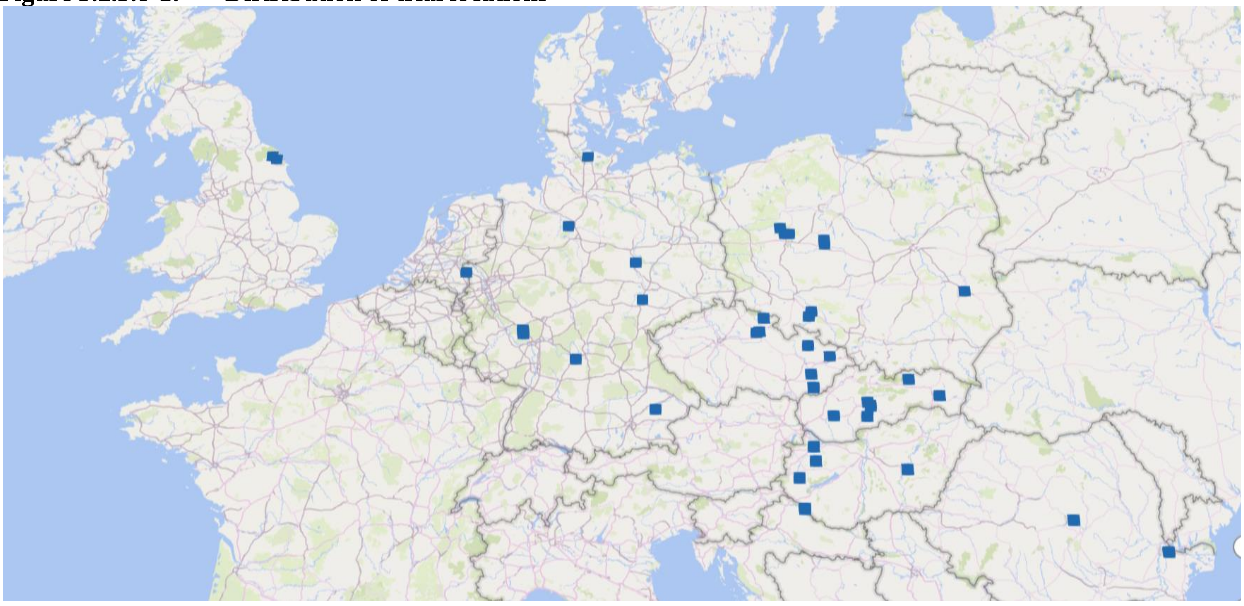
Table 3.2.3.8-2: Location of efficacy trials in the EPPO climatic zones

Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Czech Republic (CZ)	13		
Germany (DE)	11		
Hungary (HU)			7
Poland (PL)		8	
Romania (RO)			2
Slovakia (SK)			6
United Kingdom (UK)	2		
Total	**26**	**8**	**15**

Table 3.2.3.8-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (49),
	Plot size	13.5-30 m²
	Number of replications	4 (49)
Crop	Trials per crop	Spring barley (11); Winter barley (38)
	Varieties per crop	**Spring barley**: Amadora, Bojos, Francin, Kangoo, Malz, Sebastian **Winter barley**: ~~Amazon~~, Antonella, Azrah, California, ~~Calypso,~~ Cardinal, Casanova, Cassia, Gerlach, Gloria, ~~Ida,~~ Kathmandu, Keeper, Kosmos, Lomerit, Melia, Mercurioo, Meridian, Metaxa, Multie, Orwell, Pelican, Sandra, Scala, ~~Tatra,~~ Tenor, ~~Titus,~~ Yatzy
	Sowing period	**Spring barley**: Maritime zone: March (28) to April (10) South-East zone: March (18) to March (19) **Winter barley**: Maritime zone: from September (18) to October (20) North-East zone: from September (10) to October (02) South-East zone: September(13) to October (14)
Application	Crop stage (BBCH)* at application	1st application: 30 to 61 2nd application: 37 to 69
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (7); 2 (42)
	Spray volume	150-400
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Pyrenophora teres* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 59 to 83 (BBCH).
Other relevant information	Natural / artificial innoculation	49 / -
	Field / Lab / GH	49 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.8-1: Distribution of trial locations



Efficacy data for the control of *Pyrenophora teres* on barley are presented from 49 efficacy trials. The summarised results for the central European regulation zone are presented in tables 3.2.3.8-4 to 3.2.3.8-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.8-4b). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 18.6 % (range: 4.2 % to 75.3 %), this represents just acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.8-4: Efficacy of ADM.3500.F.2.B against Pyrenophora teres on winter- and spring barley (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

<table>
<tr><th rowspan="3">Crop</th><th rowspan="3">Pathogen (EPPO-code)</th><th rowspan="3">EPPO zone</th><th colspan="11">Efficacy on Pyrenophora teres</th></tr>
<tr><th rowspan="2">N° of tri-als</th><th colspan="2">Disease level in UTC (%)</th><th colspan="3">ADM.3500.F.2.B [0.8 L/ha]</th><th colspan="4">Zonal reference products</th></tr>
<tr><th>Mean</th><th>Range</th><th>Mean</th><th>Median</th><th>Range</th><th>Ref.Prod. | rate [L/ha]</th><th>Mean</th><th>Median</th><th>Range</th></tr>
<tr><td>1</td><td>2</td><td></td><td>4</td><td colspan="2">5</td><td colspan="3">6</td><td colspan="4">7</td></tr>
<tr><td rowspan="4">HORVW/HORVS</td><td rowspan="4">PYRNTE</td><td>Maritime</td><td>26</td><td>19.1</td><td>5.1-57.5</td><td>90.2</td><td>91.3</td><td>73-100</td><td>Proline | 0.8
Proline 275 | 0.72</td><td>84.2</td><td>87.1</td><td>39-100</td></tr>
<tr><td>N-East</td><td>8</td><td>14.6</td><td>6.5-31.3</td><td>91.3</td><td>91.6</td><td>81-98</td><td>Proline | 0.8</td><td>91.0</td><td>90.7</td><td>83-100</td></tr>
<tr><td>S-East</td><td>15</td><td>20.4</td><td>4.2-75.3</td><td>88.7</td><td>90.2</td><td>76-100</td><td>Proline | 0.8</td><td>88.1</td><td>88.7</td><td>69-100</td></tr>
<tr><td>Across zones</td><td>49</td><td>18.8</td><td>4.2-75.3</td><td>89.9</td><td>90.8</td><td>73-100</td><td>Proline | 0.8
Proline 275 | 0.72</td><td>86.5</td><td>88.7</td><td>39-100</td></tr>
</table>

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 49 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 89.9 % (median 90.8 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Pyrenophora teres* in the vast majority of the trials (table 3.2.3.8-

4). The performance is comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 86.5 %, median: 88.7 %).

In table 3.2.3.8.4a an additional summary of test results on the spring form only is presented.

Table 3.2.3.8-4a: Efficacy of ADM.3500.F.2.B against Pyrenophora teres s on and spring barley (relevant assessment) compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Pyrenophora teres*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
HORVS	PYRNTE	Maritime	9	18.5	5.1-41.7	93.5	95.2	78-100	Proline | 0.8	92.2	93.2	75-100
		S-East	2	7.8	6.4-9.2	99.8	.	100-100	Proline | 0.8	99.4	.	99-100
		Across zones	**11**	**16.6**	**5.1-41.7**	**94.7**	**98.1**	**78-100**	**Proline | 0.8**	**93.5**	**96.9**	**75-100**

Table 3.2.3.8-4b: Efficacy of ADM.3500.F.2.B against Pyrenophora teres on winter- and spring barley at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Pyrenophora teres*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
HORVW/HORVS	PYRNTE	Maritime	11	10.7	2-40.8	88.5	93.4	66-100	Proline | 0.8 Proline 275 | 0.72	88.2	91.7	55-100
		Maritime	8*	10.7		87.3				83.8		
		N-East	7	11.8	5.5-23.1	81.4	88.0	32-97	Proline | 0.8	80.3	88.8	32-97
		N-East	6**			79.9				78.5		
		S-East	12	7.9	1.8-16.2	85.6	85.3	72-100	Proline | 0.8	84.7	85.5	69-100
		S-East	9***	9.0		85.9				86.5		
		Across zones	**30**	**9.8**	**1.8-40.8**	**85.7**	**88.4**	**32-100**	**Proline | 0.8 Proline 275 | 0.72**	**85.0**	**88.8**	**32-100**
		Across zones****	**23**	**11.5**		**84.9**				**83.6**		

*3 trials of subcritical UNCK infestation (2.0-3.3%) excluded
**data from PL20FEHORVW038A trial (KCP 6.2-499) quoted in the BAD with reference to this table concern PUCCHD, they are used elsewhere and are excluded from the present summary
*** 2 trials with subcritical UNCK infestation (1.8-2.6%) excluded
****when the same 6 trials excluded from the across-zones summary, *i.e.* 24 are used out of 30.

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 9.8 % (range 1.8 to 41 %). Based on the results of 30 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 85.7 % (range 32 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 85.0 %, range: 32 to 100 %).

In table 3.2.3.8-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be superior to Adexar (2 results), Artemis (3 results), Bumper 250 EC (5 results), Delaro (5 results), Folicur (3 results), and Mirage 45 EC (3 results), and it tends to be roughly comparable to Mirador Xtra (2 results), Seguris (1 result), and Zakeo Opti (1 result).

Table 3.2.3.8-5: Efficacy of ADM.3500.F.2.B against Pyrenophora teres on winter- and spring barley compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Pyrenophora teres*									
		N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
HORVW/HORVS	PYRNTE	2	16.2	10.7-21.6	87.6	.	87-88	Adexar | 2	74.4	.	60-89
		3	23.1	6.7-42.5	84.9	81.3	78-96	Artemis | 2	80.0	77.2	69-94
		5	19.9	5.1-41.7	91.3	93.5	74-100	Bumper 250 EC | 0.5	73.0	91.5	4-94
		5	14.2	6.5-31.3	94.8	96	91-98	Delaro 325 SC | 1	88.4	90.7	75-94
		3	24.6	6.8-52	82.4	79.5	78-89	Folicur | 1	77.5	81.2	63-89
		2	11.6	6.1-17.2	92.8	.	87-99	Mirador Xtra | 0.75	91.0	.	85-97
		2	5.6	4.2-7.1	77.3	.	76-79	Mirage 45 EC | 1	69.2	.	62-76
		1	6.9	.	88.7	.	.	Seguris | 1	91.5	.	.
		1	7.9	.	100.0	.	.	Zakeo Opti | 2.5	100.0	.	.

Results for the control of *Pyrenophora teres* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.8-4, there are no substantial differences between the climatic zones.

In 48 efficacy trials (37 in winter barley, 11 in spring barley) with a relevant infestation of *Pyrenophora teres* yield was taken. The results are presented in table 3.2.3.8-6 (quantity of yield) and table 3.2.3.8-7 (quality of yield).

Table 3.2.3.8-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	HORVW	16	71.0	23.5-95.6	115.1	91-134	115.3	101-133
	HORVS	9	53.6	38.1-69.9	116.5	102-133	114.5	102-132
North-East	HORVW	8	54.2	40.8-83.1	122.8	106-140	120.1	100-141
South-East	HORVW	13	52.3	36.9-65	108.3	102-115	107.1	101-117
	HORVS	2	43.9	30.5-57.2	120.1	110-130	119.3	111-128
Across EPPO zones	***HORVW***	***37***	***60.8***	***23.5-95.6***	***114.3***	***91-140***	***113.4***	***100-141***
	HORVS	***11***	***51.8***	***30.5-69.9***	***117.2***	***102-133***	***115.4***	***102-132***
	HORVX	**48**	**58.7**	**23.5-95.6**	**115.0**	**91-140**	**113.9**	**100-141**

The results clearly demonstrate the benefits provided by the control of *Pyrenophora teres* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 15 %. In 27 of 48 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 6 %.

Table 3.2.3.8-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		TGW ADM.3500.F.2.B 0.8 L/ha	TGW Zonal Reference Product(s)	HLW ADM.3500.F.2.B 0.8 L/ha	HLW Zonal Reference Product(s)	PRC ADM.3500.F.2.B 0.8 L/ha	PRC Zonal Reference Product(s)	STC ADM.3500.F.2.B 0.8 L/ha	STC Zonal Reference Product(s)
Maritime	Mean	107.4	107.7	103.3	103.1	101.7	99.0	100.6	101.6
	Range	100-123	100-124	100-109	99-109	99-104	94-105		
	Nº	24	24	20	20	3	3	1	1
N-East	Mean	105.4	105.7	101.9	102.5				
	Range	100-111	100-112	99-106	99-106				
	Nº	8	8	8	8				
S-East	Mean	102.5	102.8	101.9	102.3				
	Range	99-111	100-110	99-109	98-109				
	Nº	15	15	9	9				
Across zones	**Mean**	**105.5**	**105.8**	**102.6**	**102.8**	**101.7**	**99.0**	**100.6**	**101.6**
	Range	**99-123**	**100-124**	**99-109**	**98-109**	**99-104**	**94-105**		
	Nº	**47**	**47**	**37**	**37**	**3**	**3**	**1**	**1**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content; STC = Starch content

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Pyrenophora teres* on barley.

zRMS comments:

3.2.3.8 – PYRNTE in winter and spring barley:
The efficacy following single application is ca 4% lower compared to double application overall / across the EPPO zones. Table 3.2.3.8-4b, as amended by zRMS, presents efficacy following single application, as relevant to the claimed GAP. Nonetheless, the necessary exclusions indicated in that table do not change the overall nor the zonal efficacy estimate to any degree of practical importance.
The claim is based on sufficient number of trials in both the double and single application regimen. The use in winter **and** spring barley against *Pyrenophora teres* can be authorised.

3.2.3.9 Control of *Ramularia collo-cygni* (RAMUCC) on winter- and spring barley (uses 2, 7, 12, 18, 29, 34)

Table 3.2.3.9-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Ramularia collo-cygni on winter- and spring barley

EPPO zone	EU Reg. Zone	Country	2018	2019	2020	Sum
Maritime	**Central**	DE	5	6	3	14
		IE		2		2
Total Maritime			***5***	***8***	***3***	***16***
South-East	**Central**	HU			2	2
		SK		2	2	4
Total South-East			***0***	***2***	***4***	***6***
Total			**5**	**10**	**7**	**22**

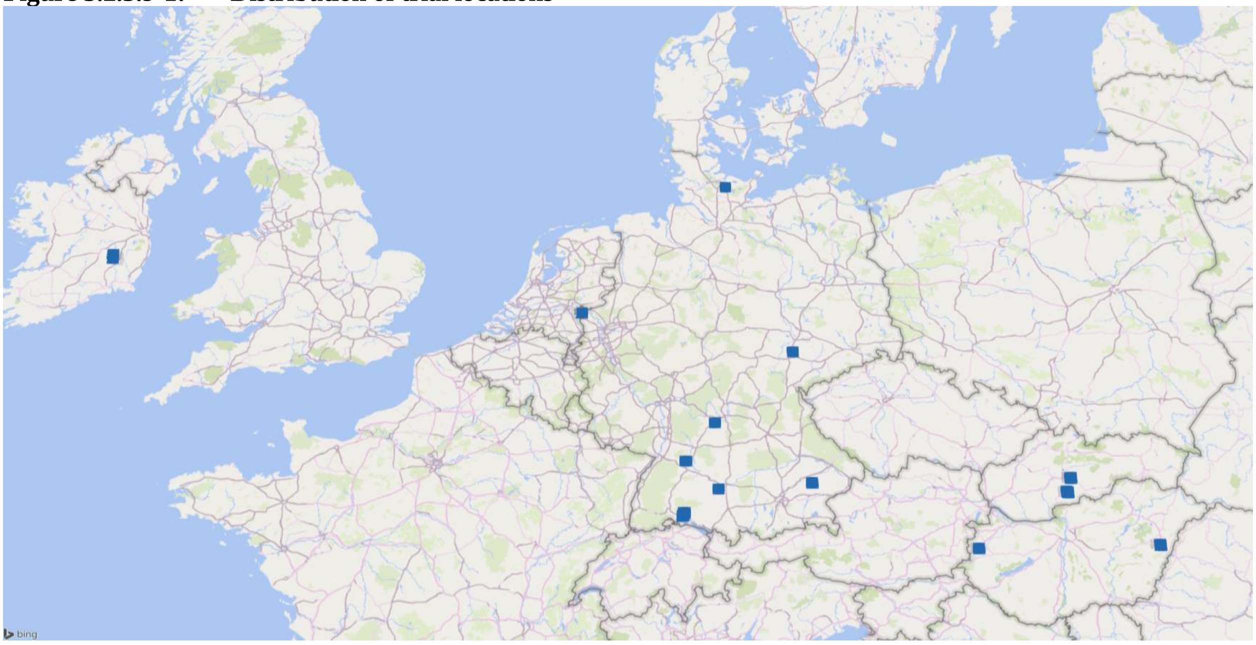
Table 3.2.3.9-2: Location of efficacy trials in the EPPO climatic zones

Country	EPPO zone Maritime	EPPO zone North-East	EPPO zone South-East
Germany (DE)	14		
Hungary (HU)			2
Ireland (IE)	2		
Slovakia (SK)			4
Total	**16**		**6**

Table 3.2.3.9-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (22),
	Plot size	14.4-30 m²
	Number of replications	4 (22)
Crop	Trials per crop	Winter barley (22)
	Varieties per crop	**Winter barley**: ~~Baracooda,~~ California, Cassia, Ellen, Higgins, Infinity, Keeper, Lomerit, Meridian, ~~Palazzo,~~ Quadriga, Scala, Titus, Vireni, Wootan
	Sowing period	Maritime zone: from September (20) to October (05) South-East zone: September(13) to October (12)
Application	Crop stage (BBCH)* at application	1st application: 30 to 55 2nd application: 37 to 69
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (3); 2 (19)
	Spray volume	150-400
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Ramularia collo-cygni* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 61 to 83 (BBCH).
Other relevant information	Natural / artificial innoculation	22 / -
	Field / Lab / GH	22 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.9-1: Distribution of trial locations



Efficacy data for the control of *Ramularia collo-cygni* on barley are presented from 22 efficacy trials. The summarised results for the central European regulation zone are presented in table 3.2.3.9-4 and table 3.2.3.9-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.

In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.9-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 41.4 % (range: 6.1 % to 97.4 %), this represents acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.9-4: Efficacy of ADM.3500.F.2.B against Ramularia collo-cygni on winter barley compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Ramularia collo-cygni*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
HORVW	RAMUCC	Maritime	16	43.8	8.9-97.4	82.5	85.6	56-99	Proline | 0.8	81.3	86.3	46-100
		S-East	6	35.2	6.1-91.3	88.7	91.1	76-93	Proline | 0.8	88.8	91	76-93
		Across zones	**22**	**41.4**	**6.1-97.4**	**84.2**	**88.5**	**56-99**	**Proline | 0.8**	**83.3**	**87.1**	**46-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 22 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 84.2 % (median 88.5 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Ramularia collo-cygni* in the vast majority of the trials (table 3.2.3.9-4). The performance is comparable to the performance provided by the zonal reference product Proline (200 g/ha prothioconazole - mean: 83.3 %, median: 87.1 %).

Table 3.2.3.9-4a: Efficacy of ADM.3500.F.2.B against Ramularia collo-cygni on winter barley at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Ramularia collo-cygni*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
HORVW	RAMUCC	Maritime	6	5.1	3.3-7.3	81.4	92.7	41-100	Proline | 0.8	78.1	95.7	17-100
HORVW	RAMUCC	Maritime	4*	6.0		**73.9**				**67.2**		

*2 trials with subcritical UNCK infestation (3.3-3.5%) excluded.

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 5.1 % (range 3.3 to 7.3 %). Based on the results of 6 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 81.4 % (range 41 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 78.1 %, range: 17-100 %).

In table 3.2.3.9-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be superior to Adexar (2 results) and Tebusha 25 EW (2 results), and it tends to be inferior to Zakeo Opti (4 results) – (table 3.2.3.9-5).

Table 3.2.3.9-5: Efficacy of ADM.3500.F.2.B against Ramularia collo-cygni on winter barley compared to the additionally applied reference products

Crop		Efficacy on *Ramularia collo-cygni*

	Pathogen (EPPO-code)	N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
HORVX	RAMUCC	2	16.8	15.8-17.8	87.7	.	85-90	Adexar | 2	72.4	.	70-75
		2	7.0	6.1-7.8	83.3	.	76-91	Tebusha 25 EW | 1	75.5	.	73-79
		4	39.3	15.6-93.5	76.7	79.5	59-89	Zakeo Opti | 2.5	91.0	92	81-99

Results for the control of *Ramularia collo-cygni* are available from EPPO zones Maritime and South-East. As demonstrated by the results presented in table 3.2.3.9-4, there are no substantial differences between the climatic zones.

In 22 efficacy trials with a relevant infestation of *Ramularia collo-cygni* yield was taken. The results are presented in table 3.2.3.9-6 (quantity of yield) and table 3.2.3.9-7 (quality of yield).

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Table 3.2.3.9-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	HORVW	16	80.9	67.8-92.4	114.8	100-135	113.6	101-132
South-East	HORVW	6	49.2	32.6-58.9	111.6	102-128	109.0	101-125
Across EPPO zones	***HORVW***	**22**	**72.3**	**32.6-92.4**	**113.9**	**100-135**	**112.4**	**101-132**

Table 3.2.3.9-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

		Quality parameters of yield							
EPPO zone		TGW		HLW		PRC		STC	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)
Maritime	Mean	107.8	108.6	102.7	102.2	101.3	99.3	100.6	101.6
	Range	100-122	98-124	100-110	96-111	99-102	94-103		
	N°	16	16	15	15	4	4	1	1
S-East	Mean	102.5	102.5	101.5	101.4	93.6	97.3		
	Range	100-106	100-106	99-103	97-104				
	N°	6	6	6	6	1	1		
Across zones	**Mean**	**106.4**	**106.9**	**102.3**	**102.0**	**99.8**	**98.9**	**100.6**	**101.6**
	Range	**100-122**	**98-124**	**99-110**	**96-111**	**94-102**	**94-103**		
	N°	**22**	**22**	**21**	**21**	**5**	**5**	**1**	**1**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content; STC = Starch content

The results clearly demonstrate the benefits provided by the control of *Ramularia collo-cygni* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 14 %. In 13 of 22 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 6 %.

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Ramularia collo-cygni* on barley.

zRMS comments:

3.2.3.9 - RAMUCC in winter and spring barley:

Only the Maritime and the SE EPPO zone data are shown. For the NE zone the data set includes just one trial (LV19FEHORVX492A), which has not been summarized by the applicant (efficacy 65.7% and 70.7%, the test item and zonal reference stdrd respectively). Assessments following single application are available for the Maritime zone alone, all from DE, 6 trials. Table 3.2.3.9-4a modified by zRMS shows additionally the efficacy summarized only across four of these trials, as the other two are unreliable for their low infestation levels. The performance of the test item is still retained above the level of standards, but the efficacy is 7.5% lower compared to the original 6-trial summary.
The use is supported by sufficient number of trials for the Maritime zone. For the SE zone the single-application assessments are unavailable, therefore the cMSs in that zone are kindly advised to consider individually the relevance of the double-application experimetal regimen to the single application GAP claim. No data has been presented for the NE EPPO zone and there the use cannot be authorized.

3.2.3.10 Control of *Puccinia hordei* (PUCCHD) on winter- and spring barley (uses 2, 7, 12, 18, 29, 34)

Table 3.2.3.10-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Puccinia hordei on winter- and spring barley

EPPO zone	EU Reg. Zone	Country	2018	2019	2020	Sum
Maritime	**Central**	CZ	2	2	4	8
		DE	3	10	1	14
		UK		1		1
Total Maritime			***5***	***13***	***5***	***23***
North-East	**Central**	PL		4	2	6
South-East	**Central**	HU	1	2		***3***
Total			**6**	**19**	**7**	**32**

Table 3.2.3.10-2: Location of efficacy trials in the EPPO climatic zones

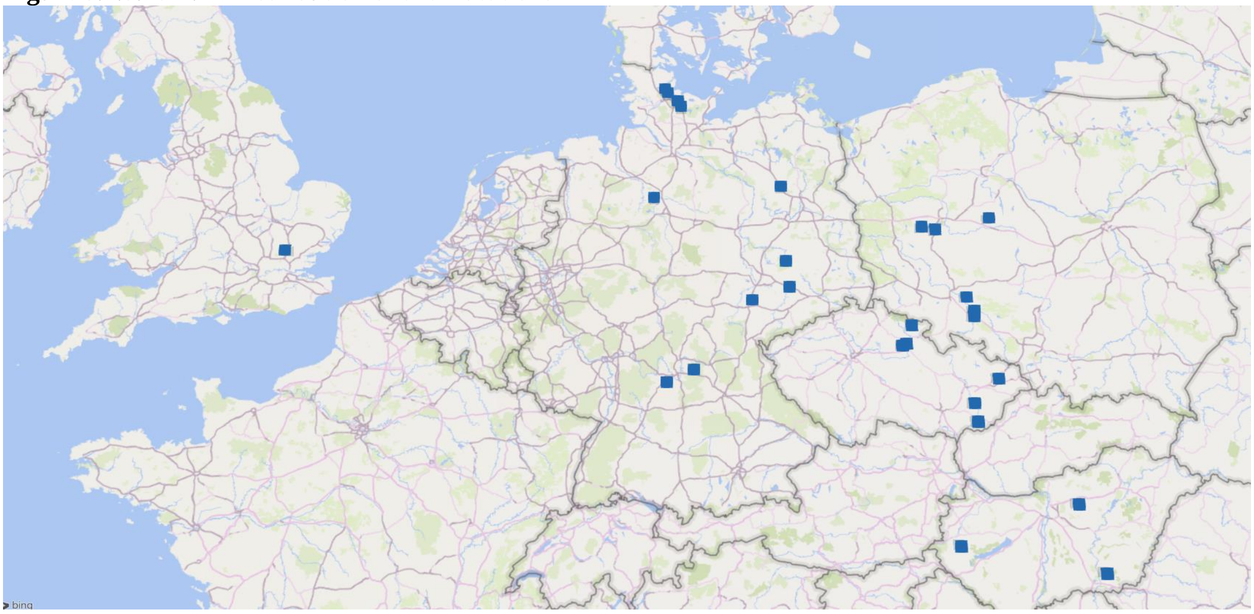
Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Czech Republic (CZ)	8		
Germany (DE)	14		
Hungary (HU)			3
Poland (PL)		6	
United Kingdom (UK)	1		
Total	**23**	**6**	**3**

Table 3.2.3.10-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (32),
	Plot size	14.4-36 m²
	Number of replications	4 (32)
Crop	Trials per crop	Spring barley (6); Winter barley (26)
	Varieties per crop	**Spring barley**: Amadora, Bojos, Francin, ~~Sebastian~~ Malz **Winter barley**: Amazon, Antonella, Apavár, Bazooka, Carat, Carmina, Higgins, Ida, Keeper, Kosmos, Lomerit, Melania, Mercurioo, Meridian, ~~Rotondo,~~ Sandra, Tenor, Zenek
	Sowing period	**Spring barley**: Maritime zone: March (28) to April (10) **Winter barley**: Maritime zone: from September (19) to October (05) North-East zone: from September (18) to September (27) South-East zone: October (04) to October (19)
Application	Crop stage (BBCH)* at application	1st application: 30 to 61 2nd application: 39 to 71

	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (4); 2 (28)
	Spray volume	100-400
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Puccinia hordei* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 65 to 85 (BBCH).
Other relevant information	Natural / artificial innoculation	32/ -
	Field / Lab / GH	32 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.10-1: Distribution of trial locations



Efficacy data for the control of *Puccinia hordei* on barley are presented from 32 efficacy trials. The summarised results for the central European regulation zone are presented in table 3.2.3.10-4 and table 3.2.3.10-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.10-4b). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 20 % (range: 4.8 % to 100 %), this represents just acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.10-4: Efficacy of ADM.3500.F.2.B against Puccinia hordei on winter- and spring barley (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia hordei*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
HORVW/HORVS	PUCCHD	Maritime	23	19.2	4.8-66.3	96.9	100	85-100	Proline | 0.8	95.3	100	82-100

									Proline 275 | 0.72			
		N-East	6	13.4	7.4-22.5	93.3	95.3	87-98	Proline | 0.8	92.4	93.2	87-98
		S-East	3	39.2	6.8-100	95.6	95.5	91-100	Proline | 0.8	95.2	95.7	90-100
		Across zones	**32**	**20.0**	**4.8-100**	**96.1**	**97.9**	**85-100**	**Proline | 0.8 Proline 275 | 0.72**	**94.8**	**96.1**	**82-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 32 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 96 % (median 98 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Puccinia hordei* in the vast majority of the trials (table 3.2.3.10-4). The performance is comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 95 %, median: 96 %).

In table 3.2.3.8.4a an additional summary of test results on the spring form only is presented.

Table 3.2.3.8-10a: Efficacy of ADM.3500.F.2.B against Puccinia hordei on and spring barley (relevant assessment) compared to the zonal reference product(s)

Crop	**Pathogen (EPPO-code)**	**EPPO zone**	**Efficacy on *Puccinia hordei***									
			N° of tri-als	**Disease level in UTC (%)**		**ADM.3500.F.2.B [0.8 L/ha]**			**Zonal reference products**			
				Mean	**Range**	**Mean**	**Median**	**Range**	**Ref.Prod. | rate [L/ha]**	**Mean**	**Median**	**Range**
HORVS	PUCCHD	Maritime	8	14.2	5.6-30.8	95.2	97.7	85-100	Proline | 0.8	92.5	93	82-100

Table 3.2.3.10-4b: Efficacy of ADM.3500.F.2.B against Puccinia hordei on winter- and spring barley at the time of the 2nd application compared to the zonal reference product(s)

Crop	**Pathogen (EPPO-code)**	**EPPO zone**	**Efficacy on *Puccinia hordei***									
			N° of tri-als	**Disease level in UTC (%)**		**ADM.3500.F.2.B [0.8 L/ha]**			**Zonal reference product(s)**			
				Mean	**Range**	**Mean**	**Me-dian**	**Range**	**Ref.Prod. | rate [L/ha]**	**Mean**	**Median**	**Range**
HORVW/HORVS	PUCCHD	Maritime	10	8.6	1.3-14.8	95.7	99.4	81-100	Proline | 0.8 Proline 275 | 0.72	94.8	99.7	73-100
		N-East	3	7.5	6.5-8.4	69.9	70.1	46-93	Proline | 0.8	67.4	62.7	46-93
		N-East*	4	7.0	5.5-8.4	75.0				73.3		
		S-East	2	4.6	2.8-6.5	78.8	.	58-100	Proline | 0.8	98.1	.	96-100
		Across zones	15	7.8	1.3-14.8	88.3	98.6	46-100	**Proline | 0.8 Proline 275 | 0.72**	89.7	99.2	46-100

*see the commenting box following this use

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 7.8 % (range 1.3 to 15 %). Based on the results of 16 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 88.3 % (range 46 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 89.7 %, range: 46 to 100 %).

In table 3.2.3.10-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be superior to Seguris (4 results), and it tends to be roughly comparable to Amistar Oüti (1 result), Artemis (4 results), Bumper 250 EC (2 results), Folicur (1 result), and Zakeo Opti (1 result).

Table 3.2.3.10-5: Efficacy of ADM.3500.F.2.B against Puccinia hordei on winter- and spring barley compared to the additionally applied reference products

Crop		**Efficacy on *Puccinia hordei***

	Pathogen (EPPO-code)	N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
HORVW/HORVS	PUCCHD	1	5.0	.	100.0	.	.	Amistar OptI | 2.5	100.0	.	.
		4	34.1	6.8-100	91.5	89.8	87-100	Artemis | 2	89.6	86.7	85-100
		2	19.2	9.9-28.5	97.7	.	95-100	Bumper 250 EC | 0.5	95.0	.	90-100
		1	10.6	.	95.5	.	.	Folicur | 1	94.8	.	.
		4	12.6	7.4-22.5	96.2	96.1	95-98	Seguris| 1	80.0	84.9	55-95
		1	25.4	.	100.0	.	.	Zakeo Opti | 2.5	100.0	.	.

Results for the control of *Puccinia hordei* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.10-4, there are no substantial differences between the climatic zones.

In 31 efficacy trials (23 in winter barley, 8 in spring barley) with a relevant infestation of *Puccinia hordei* yield was taken. The results are presented in table 3.2.3.10-6 (quantity of yield) and table 3.2.3.10-7 (quality of yield).

Table 3.2.3.10-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	HORVW	14	72.0	44.3-91.2	121.8	99-159	121.3	100-156
	HORVS	8	54.0	38.1-69.9	114.9	102-133	113.3	102-132
North-East	HORVW	6	54.3	33.5-69.1	114.4	107-127	112.5	103-122
South-East	HORVW	3	53.4	47.3-64.4	112.5	108-122	109.6	105-115
Across EPPO zones	***HORVW***	***23***	***65.0***	***33.5-91.2***	***118.6***	***99-159***	***117.5***	***100-156***
	HORVS	***8***	***54.0***	***38.1-69.9***	***114.9***	***102-133***	***113.3***	***102-132***
	HORVX	**31**	**62.2**	**33.5-91.2**	**117.7**	**99-159**	**116.4**	**100-156**

The results clearly demonstrate the benefits provided by the control of *Puccinia hordei* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 17.7 %. In 16 of 31 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 7 %.

Table 3.2.3.10-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

		Quality parameters of yield					
EPPO zone		TGW		HLW		PRC	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)
Maritime	Mean	109.0	107.3	104.5	103.1	102.4	101.9
	Range	100-123	74-122	99-114	76-114	102-104	98-105
	N°	22	22	19	19	4	4
N-East	Mean	103.2	103.0	101.6	101.7		
	Range	101-106	100-107	100-104	100-104		
	N°	6	6	6	6		
S-East	Mean	100.8	101.1	101.8	100.2		
	Range	98-102	101-101	100-103	100-101		
	N°	3	3	2	2		
Across zones	**Mean**	**107.1**	**105.9**	**103.7**	**102.6**	**102.4**	**101.9**

	Range	**98-123**	**74-122**	**99-114**	**76-114**	**102-104**	**98-105**
	Nº	**31**	**31**	**27**	**27**	**4**	**4**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Puccinia hordei* on barley.

zRMS comments:

3.2.3.10 - PUCCHD in winter and spring barley:

In the PUCCHD data set the Maritime and the NE EPPO zones are represented adequately or minimally, by 23 or 6 trials, respectively, with some of them making insight available into efficacy following single application. Unfortunately, the SE EPPO zone is represented by merely 3 HU trials.
The efficacy reduction from the double vs single application is enormous in the NE and SE zones (-23% and -17% respectively, the ADM.03500.F.2.B), which comes not as surprise considered their trial count (6 and 3 respectively for double application; 3 and 2 for single application data). On the contrary, the Maritime zone assessments reveal the equivalent level of efficacy irrespective of the application scheme.
In the SE zone the single application data come from 2 trials, one with the test item efficacy 100% at 2.8% level of UNCK infestation and the other – with the efficacy of 57.7% (6.5% infestation in the UNCK). The set is therefore unreliable by default, as it contains only two valid trials overall, each one concerning different application regimen (in the third trial, with adequate infestation level, only the double application data are available).
The NE zone data set should have been extended, **by the applicant**, by one more trial which apparently reports PUCCHD control but was erroneously included in PYRNTE summary: the PL20FEHORVW038A trial (KCP 6.2-499). The resultant efficacy is then 75.0% and 73.3% for the test item and the standard respectively, at 7.0% (5.5-8.4%) UNCK infestation; n=4 for single application assessment.

Since the complete set of trials for the control of *Puccinia hordei* in barley includes 6 trials in spring form of the crop, and one of them (CZ20FEHORVS255A) reports the efficacy following single application, to the opinion of zRMS these data are sufficient for authorization of the use in winter and spring barley in the Maritime and in the NE EPPO zones. Contrastingly, it is up to the cMSs in the SE zone whether they will consider the scarce and flawed data set from HU as sufficient for authorization in their countries.

3.2.3.11 Control of *Rhynchosporium secalis* (RHYNSE) on winter rye (uses 3, 8, 13, 19, 30, 35, 169)

Table 3.2.3.11-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Rhynchosporium secalis on winter rye

EPPO zone	EU Reg. Zone	Country	2019	2020	Sum
Maritime	**Central**	AT	1	1	2
		CZ	1	3	4
		DE	7	5	12
		UK	1		1
Total Maritime			***10***	***9***	***19***
North-East	**Central**	PL	3		**3**
Total			**13**	**9**	**22**

Table 3.2.3.11-2: Location of efficacy trials in the EPPO climatic zones

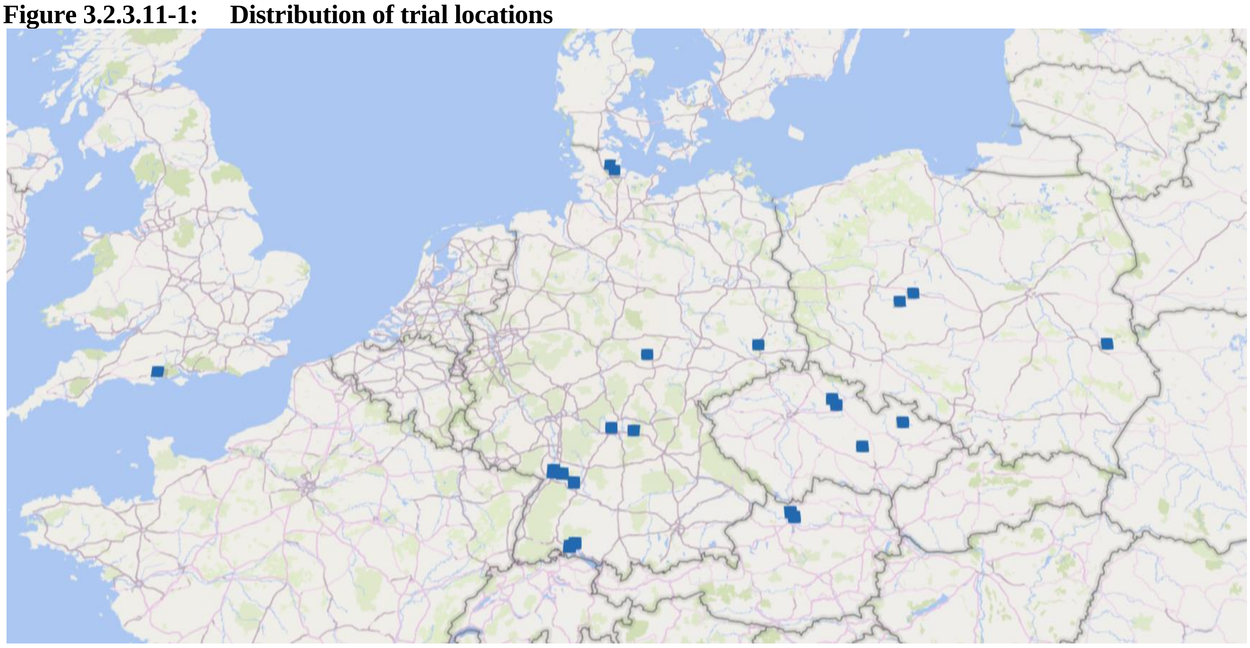
Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Austria (AT)	2		
Czech Republic (CZ)	4		
Germany (DE)	12		
Poland (PL)		3	
United Kingdom (UK)	1		
Total	**19**	**3**	

Table 3.2.3.11-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)

	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (22),
	Plot size	17.5-37.5 m²
	Number of replications	4 (22)
Crop	Trials per crop	Winter rye (22)
	Varieties per crop	Binntto, Bono, Diament, Dukato, Eterno, Forsetti, Gonello, Granat, Herakles, Inspector, Mephisto, Performer, Piano, Serafino
	Sowing period	Maritime zone: from September (16) to November (02) North-East zone: from September (14) to September (27)
Application	Crop stage (BBCH)* at application	1st application: 31 to ~~57~~ 45 2nd application: 35 to ~~61~~ 65
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (1); 2 (21)
	Spray volume	150-400
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Rhynchosporium secalis* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 65 to 83 (BBCH).
Other relevant information	Natural / artificial innoculation	22 / -
	Field / Lab / GH	22 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.11-1: Distribution of trial locations



Efficacy data for the control of *Rhynchosporium secalis* on rye are presented from 22 efficacy trials. The summarised results for the central European regulation zone are presented in table 3.2.3.11-4 and table 3.2.3.11-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.11-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the untreated plots was 15.6 % (range: 5 % to 65 %), this represents just acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.11-4: Efficacy of ADM.3500.F.2.B against Rhynchosporium secalis on winter rye (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Rhynchosporium secalis*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
SECCW	RHYNSE	Maritime	19	16.8	5-65	90.6	91.7	70-100	Proline | 0.8 Proline 275 | 0.72	89.7	90.8	67-100
		N-East	3	7.8	7.3-8.5	84.5	85	74-95	Proline | 0.8	83.5	86.7	71-93
		Across zones	**22**	**15.6**	**5-65**	**89.8**	**90.6**	**70-100**	**Proline | 0.8 Proline 275 | 0.72**	**88.9**	**90.4**	**67-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 22 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 89.8 % (median 90.6 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Rhynchosporium secalis* in the vast majority of the trials (table 3.2.3.11-4). The performance is comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 88.9 %, median: 89.8 %).

Table 3.2.3.11-4a: Efficacy of ADM.3500.F.2.B against Rhynchosporium secalis on winter rye at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Rhynchosporium secalis*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
SECCW	RHYNSE	Maritime	11	7.0	2.8-12.4	89.5	92.6	63-100	Proline | 0.8 Proline 275 | 0.72	89.4	93.3	51-100
		N-East	3	5.9	5.3-6.9	79.7	80.0	73-86	Proline | 0.8	75.2	72.9	73-80
		Across zones	**14**	**6.7**	**2.8-12.4**	**87.4**	**88.0**	**63-100**	**Proline | 0.8 Proline 275 | 0.72**	**86.3**	**90.3**	**51-100**

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 6.7 % (range 2.8 to 12.4 %). Based on the results of 14 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 87.4 % (range 63 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 86.3 %, range: 51-100 %).

In table 3.2.3.11-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be superior to Artemis (3 results) and it tends to be slightly superior to roughly comparable to Osiris (4 results).

Table 3.2.3.11-5: Efficacy of ADM.3500.F.2.B against Rhynchosporium secalis on winter rye compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Rhynchosporium secalis*								
		N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
SECCE	RHYNSE	3	7.8	7.3-8.5	84.5	85	74-95	Artemis | 2	69.2	67.2	53-87
		4	22.7	6.7-65	92.8	94.2	83-100	Osiris | 3	88.3	88.4	76-100

Results for the control of *Rhynchosporium secalis* are available from EPPO zones Maritime and North-East. As demonstrated by the results presented in table 3.2.3.11-4, there are no substantial differences between the climatic zones.

In 21 efficacy trials with a relevant infestation of *Rhynchosporium secalis* yield was taken. The results are presented in table 3.2.3.11-6 (quantity of yield) and table 3.2.3.11-7 (quality of yield).

Table 3.2.3.11-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	SECCW	18	81.9	28.7-127.5	112.8	100-132	111.3	101-133
North-East	SECCW	3	51.1	43.7-55.6	112.5	105-124	111.3	104-124
Across EPPO zones	**SECCW**	**21**	**77.5**	**28.7-127.5**	**112.7**	**100-132**	**111.3**	**101-133**

The results clearly demonstrate the benefits provided by the control of *Rhynchosporium secalis* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 12.7 %. In 13 of 21 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 5 %.

Table 3.2.3.11-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		Quality parameters of yield					
		TGW		HLW		PRC	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)
Maritime	Mean	105.5	104.5	101.7	101.3	101.1	108.8
	Range	101-116	98-116	98-109	98-106	101-101	109-109
	Nº	18	18	18	18	1	1
N-East	Mean	102.6	102.6	102.2	102.4		
	Range	101-105	101-105	101-104	101-104		
	Nº	3	3	3	3		
Across zones	**Mean**	**105.1**	**104.2**	**101.8**	**101.5**	**101.1**	**108.8**
	Range	**101-116**	**98-116**	**98-109**	**98-106**		
	Nº	**21**	**21**	**21**	**21**	**1**	**1**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Rhynchosporium secalis* on winter rye.

zRMS comments:

3.2.3.11 – RHYNSE in winter rye:

Only two EPPO zones are represented. When averaged across the Maritime and the NE zone the efficacy is ca 2.5% lower following single application compared to the double application scheme. In the NE zone alone the difference is close to 5%, to the disadvantage of single application. Exclusion of 3 trials with 2.8-3.0% UNCK infestation in the Maritime zone results in the efficacy lower by 2.7% in the test item, ADM.03500.F.2.B, across the zones.
The test product performs the level of standards and the number of trials is sufficient to allow for authorization of the use in the Maritime zone, based on the zonal data, and in the NE zone, based on the proper zonal data plus the supporting trials from the neighbouring CZ and DE.

Additionally, the cMS Slovenia, located across the Mediterranean and the Maritime EPPO zones, is kindly invited to confirm this use, if willing to accept the Maritime zone data from AT, CZ, DE and the UK.

3.2.3.12 Control of *Puccinia recondita* (PUCCRE / PUCCRR) on winter rye (uses 3, 8, 13, 19, 30, 35, 169)

Table 3.2.3.12-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Puccinia recondita on winter rye

EPPO zone	EU Reg. Zone	Country	2019	2020	Sum
Maritime	**Central**	AT	1	1	2
		CZ		3	3
		DE	10	3	13
		UK		2	2
Total Maritime			***11***	***9***	***20***
North-East	**Central**	PL	3	3	**6**
Total			**14**	**12**	**26**

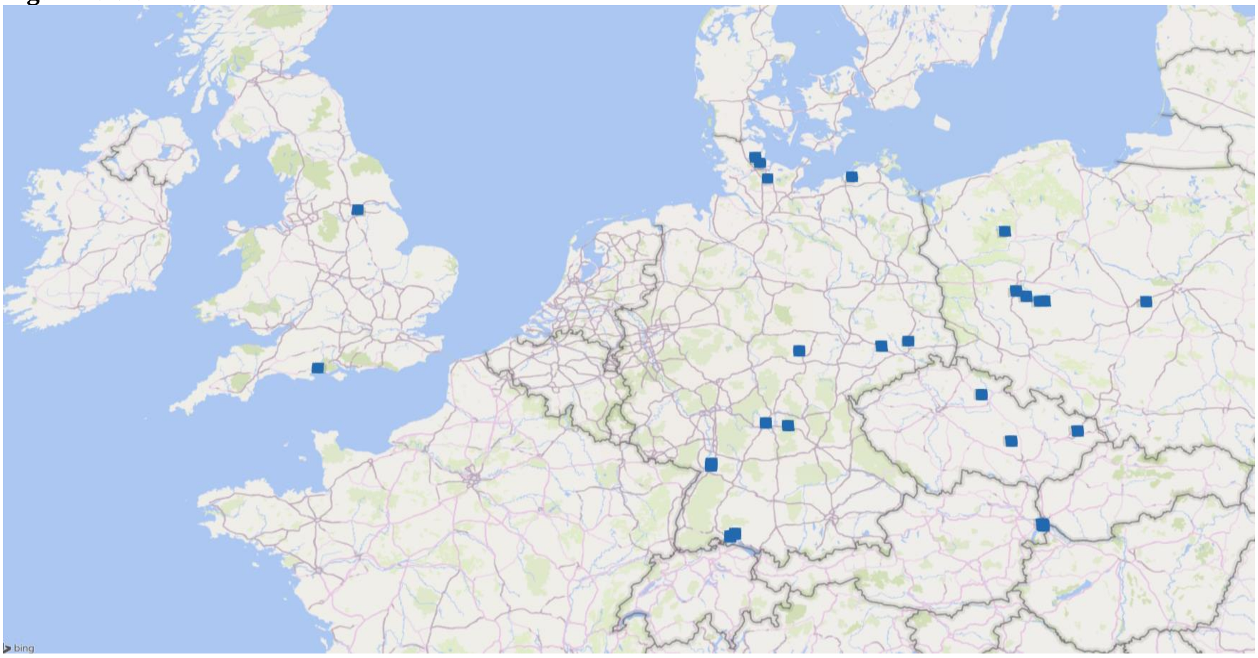
Table 3.2.3.12-2: Location of efficacy trials in the EPPO climatic zones

Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Austria (AT)	2		
Czech Republic (CZ)	3		
Germany (DE)	13		
Poland (PL)		6	
United Kingdom (UK)	2		
Total	**20**	**6**	

Table 3.2.3.12-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (26),
	Plot size	17.5-36 m²
	Number of replications	4 (26)
Crop	Trials per crop	Winter rye (26)
	Varieties per crop	Amber, Binntto, Diament, ~~Diament,~~ Dolaro, Dukato, Eterno, Gatano, Gonello, Inspector, Mephisto, Palazzo, Performer, Rubin, Serafino, Tayo, Złote
	Sowing period	Maritime zone: from September (11) to October (30) North-East zone: from September (20) to October (14)
Application	Crop stage (BBCH)* at application	1st application: 31 to ~~57~~ 45 2nd application: 41 to 65
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (3); 2 (23)
	Spray volume	200-400
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Puccinia recondita* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 49 to 85 (BBCH).
Other relevant information	Natural / artificial innoculation	26 / -
	Field / Lab / GH	26 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.12-1: Distribution of trial locations



Efficacy data for the control of *Puccinia recondita* on rye are presented from 26 efficacy trials. The summarised results for the central European regulation zone are presented in table 3.2.3.12-4 and table 3.2.3.12-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.

In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.12-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 15.1 % (range: 5 % to 67 %), this represents just acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.12-4: Efficacy of ADM.3500.F.2.B against Puccinia recondita on winter rye (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia recondita*										
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products				
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
SECCW	PUCCRE	Maritime	20	14.5	5-67	91.2	96.5	58-100	Proline | 0.8 Proline 275 | 0.72	90.6	96.7	62-100
		N-East	6	17.4	6-31.3	93.4	94.3	84-100	Proline | 0.8	91.5	91.4	84-98
		Across zones	**26**	**15.1**	**5-67**	**91.7**	**95.9**	**58-100**	**Proline | 0.8 Proline 275 | 0.72**	**90.8**	**96**	**62-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 26 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 91.7 % (median 95.9 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Puccinia recondita* in the vast majority of the trials (table 3.2.3.12-4). The performance is comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 90.8 %, median: 96 %).

Table 3.2.3.12-4a: Efficacy of ADM.3500.F.2.B against Puccinia recondita on winter rye at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia recondita*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
SECCW	PUCCRE	Maritime	7	4.2	2-8.3	92.9	100.0	51-100	Proline | 0.8 Proline 275 | 0.72	90.5	100	34-100
		N-East	6	6.7	2.6-11.6	91.8	95.0	81-99	Proline | 0.8	88.2	88.8	77-98
		Across zones	**13**	**5.4**	**2-11.6**	**92.4**	**98.9**	**51-100**	**Proline | 0.8 Proline 275 | 0.72**	**89.4**	**98.0**	**34-100**

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 5.4 % (range 2.0 to 11.6 %). Based on the results of 13 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 92.4 % (range51 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 89.4 %, range: 34-100 %).

In table 3.2.3.12-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends to be superior to Artemis (3 results) and Osiris (4 results)

Table 3.2.3.12-5: Efficacy of ADM.3500.F.2.B against Puccinia recondita on winter rye compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Puccinia recondita*									
		N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
SECCW	PUCCRE	6	17.4	6-31.3	93.4	94.3	84-100	Artemis | 2	81.9	81.1	75-90
		3	12.9	5.3-16.8	95.5	96	91-100	Osiris | 3	89.8	97.5	72-100

Results for the control of *Puccinia recondita* are available from EPPO zones Maritime and North-East. As demonstrated by the results presented in table 3.2.3.12-4, there are no substantial differences between the climatic zones.

In 26 efficacy trials with a relevant infestation of *Puccinia recondita* yield was taken. The results are presented in table 3.2.3.12-6 (quantity of yield) and table 3.2.3.12-7 (quality of yield).

Table 3.2.3.12-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	SECCW	20	83.4	43.6-127.5	111.8	100-132	111.2	101-133
North-East	SECCW	6	55.0	38.8-76.6	112.3	106-120	110.4	104-116
Across EPPO zones	**SECCW**	**26**	**76.9**	**38.8-127.5**	**111.9**	**100-132**	**111.0**	**101-133**

The results clearly demonstrate the benefits provided by the control of *Puccinia recondita* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 11.9 %. In 13 of 26 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between

EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 5 %.

Table 3.2.3.12-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		TGW ADM.3500.F.2.B 0.8 L/ha	TGW Zonal Reference Product(s)	HLW ADM.3500.F.2.B 0.8 L/ha	HLW Zonal Reference Product(s)	PRC ADM.3500.F.2.B 0.8 L/ha	PRC Zonal Reference Product(s)
Maritime	Mean	104.5	103.8	101.3	100.6	101.1	108.8
	Range	96-116	98-116	98-109	98-106	101-101	109-109
	Nº	19	19	20	20	1	1
N-East	Mean	107.2	106.7	102.2	101.8		
	Range	103-115	101-115	100-104	101-103		
	Nº	6	6	6	6		
Across zones	**Mean**	**105.1**	**104.5**	**101.5**	**100.9**	**101.1**	**108.8**
	Range	**96-116**	**98-116**	**98-109**	**98-106**		
	Nº	**25**	**25**	**26**	**26**	**1**	**1**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Puccinia recondita* on winter rye.

zRMS comments:

3.2.3.12 – PUCCRE / PUCCRR in winter rye:

Only two EPPO zones are represented. The efficacy level is comparable in the single and double application regimen, as it is between the zones considered. The test product performs the level of standards and the number of trials is sufficient to allow for authorization of the use in the Maritime and the NE EPPO zones, based on the zonal data alone, in each case.

3.2.3.13 Control of *Zymoseptoria tritici* (SEPTTR) on winter- and spring triticale (uses 4, 9, 14, 20, 31, 36, 40)

Table 3.2.3.13-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Zymoseptoria tritici on winter- and spring triticale

EPPO zone	EU Reg. Zone	Country	2019	2020	Sum
Maritime	**Central**	AT		2	2
		CZ	7	3	10
		DE	6	1	7
Total Maritime			***13***	***6***	***19***
North-East	**Central**	PL	4	2	***6***
South-East	**Central**	RO	3	2	***5***
Total			**20**	**10**	**30**

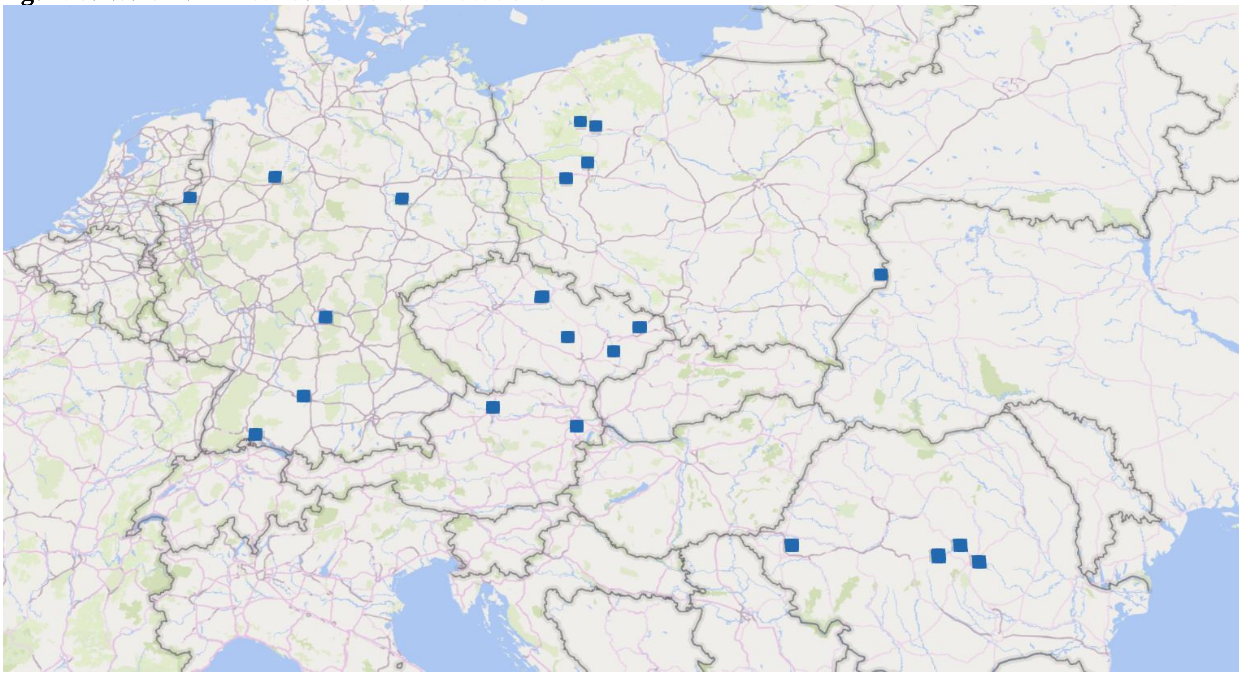
Table 3.2.3.13-2: Location of efficacy trials in the EPPO climatic zones

Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Austria (AT)	2		
Czech Republic (CZ)	10		
Germany (DE)	7		
Poland (PL)		6	
Romania (RO)			5
Total	**19**	**6**	**5**

Table 3.2.3.13-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (30),
	Plot size	16-30 m²
	Number of replications	4 (30)
Crop	Trials per crop	Winter triticale (30)
	Varieties per crop	Agostino, Agrano, Barolo, Cedrico, Flavius, Fredro, Kasyno, KM 342-15, Lanetto, Lombardo, Magnat, Maros, Negoiu, Rotondo, Securo, Steel, Subito, Talentro, Tribonus, Trismart, Tubus, Tulus, Twingo
	Sowing period	Maritime zone: from September (18) to October (17) North-East zone: from September (11) to October (27) South-East zone: from September (22) to October (30
Application	Crop stage (BBCH)* at application	1st application: ~~31~~ 30 to 43 2nd application: 39 to 69
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (2); 2 (28)
	Spray volume	150-300
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Zymoseptoria tritici* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 49 to 85 (BBCH).
Other relevant information	Natural / artificial innoculation	30 / -
	Field / Lab / GH	30 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.13-1: Distribution of trial locations



Efficacy data for the control of *Zymoseptoria tritici* on triticale are presented from 30 efficacy trials. The summarised results for the central European regulation zone are presented in table 3.2.3.13-4 and table 3.2.3.13-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.13-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

At the relevant assessment, the mean infestation in the untreated plots was 14.9 % (range: 5.4 % to 50 %), this represents acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.13-4: Efficacy of ADM.3500.F.2.B against Zymoseptoria tritici on winter triticale (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Zymoseptoria tritici*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
TLLWI	SEPTTR	Maritime	19	16.3	5.4-50	83.2	86.8	44-98	Proline | 0.8	79.9	84	27-99
		N-East	6	15.0	8.6-25.9	89.1	87.3	85-97	Proline | 0.8	86.6	83.8	82-95
		S-East	5	9.4	6.1-12.1	86.7	88.1	71-94	Proline | 0.8	90	89.3	86-94
		Across zones	**30**	**14.9**	**5.4-50**	**85**	**88.1**	**44-98**	**Proline | 0.8**	**82.9**	**86**	**27-99**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 30 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 85 % (median 88.1 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Zymoseptoria tritici* in the vast majority of the trials (table 3.2.3.13-4). The performance is comparable to the performance provided by the zonal reference product Proline (200 g/ha prothioconazole - mean: 82.9 %, median: 86 %).

Table 3.2.3.13-4a: Efficacy of ADM.3500.F.2.B against Zymoseptoria tritici on winter triticale at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Zymoseptoria tritici*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TTLWI	SEPTTR	Maritime	12	12.5	2.8-31	88.2	96.5	44-100	Proline | 0.8	87.4	94.1	27-100
		N-East	6	12.6	5.9-21.9	88.9	88.2	85-94	Proline | 0.8	85.8	88.1	74-95
		S-East	4	5.4	4.6-6.1	86.3	90.1	71-94	Proline | 0.8	88.8	89.2	86-91
		Across zones	**22**	**11.2**	**2.8-31**	**88.1**	**91.7**	**44-100**	**Proline | 0.8**	**87.2**	**90.4**	**27-100**

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 11.2 % (range 2.8 to 31 %). Based on the results of 22 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 88.1 % (range 44 to 100 %). The performance is fully comparable to the performance provided by the zonal reference product Proline (200 g/ha prothioconazole - mean: 87.2 %, range: 27-100 %).

In table 3.2.3.13-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tends tended to be superior to Delaro 325 SC (4 results), slightly inferior to Hutton (5 results) and the sequential application of Leander and Elatus Era (2 results), and roughly comparable to all other additionally applied reference products included in the tests.

Table 3.2.3.13-5: Efficacy of ADM.3500.F.2.B against Zymoseptoria tritici on winter triticale compared to the additionally applied reference products

Crop	Patho-gen (EPPO-code)	Efficacy on *Zymoseptoria tritici*									
		N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TTLWI	SEPTTR	1	31.0	.	43.5	.	.	Amistar Opti | 2.5	35.5	.	.
		4	14.9	8.6-25.9	90.3	89.8	85-97	Delaro 325 SC | 1	81.6	82.9	66-94
		2	10.3	9.6-10.9	93.0	.	93-94	Elatus Era | 1	93.7	.	93-95
		5	16.8	8.8-37.5	82.9	86.1	61-97	Hutton | 0.8	94.1	91.4	91-100
		2	15.0	15-15	86.7	.	85-88	Leander & Elatus Era | 0.75 & 0.8	95.0	.	95-95
		1	5.4	.	82.1	.	.	Osiris | 3	77.5	.	.
		1	12.5	.	96.0	.	.	Zakeo Opti | 2.5	98.0	.	.

Results for the control of *Zymoseptoria tritici* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.13-4, there are no substantial differences between the climatic zones.

In 29 efficacy trials with a relevant infestation of *Zymoseptoria tritici* yield was taken. The results are presented in table 3.2.3.13-6 (quantity of yield) and table 3.2.3.13-7 (quality of yield).

Table 3.2.3.13-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield			
		N° of trials	Yield in UTC (dt/ha)	ADM.3500.F.2.B [0.8 L/ha]	Zonal reference product

			Mean	Range	Mean	Range	Mean	Range
Maritime	TTLSS	18	71.5	52-95	112.8	98-130	112.6	101-129
North-East	TTLSS	6	65.7	49.4-88.5	114.3	106-131	112.4	101-128
South-East	TTLSS	5	54.0	46.6-62.8	109.5	108-111	108.5	106-111
Across EPPO zones	**TTLSS**	**29**	**67.3**	**46.6-95**	**112.5**	**98-131**	**111.8**	**101-129**

The results clearly demonstrate the benefits provided by the control of *Zymoseptoria tritici* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 12.5 %. In 20 of 29 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 5 %.

Table 3.2.3.13-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

		Quality parameters of yield			
		TGW		HLW	
EPPO zone		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)
Maritime	Mean	104.5	105.0	101.5	101.2
	Range	96-110	100-112	100-106	99-108
	Nº	18	18	18	18
N-East	Mean	105.8	103.8	101.8	101.6
	Range	101-112	100-110	100-104	100-103
	Nº	6	6	6	6
S-East	Mean	105.7	105.6	103.2	102.9
	Range	101-118	101-114	102-106	101-105
	Nº	5	5	5	5
Across zones	**Mean**	**105.0**	**104.9**	**101.8**	**101.5**
	Range	**96-118**	**100-114**	**100-106**	**99-108**
	Nº	**29**	**29**	**29**	**29**

TGW = Thousand grain weight; HLW = Hectolitre weight

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Zymoseptoria tritici* on triticale.

zRMS comments:

3.2.3.13 – SEPTTR in winter and spring triticale:

The data set does not include trials in the spring form of the crop.
The zonal and interzonal mean efficacy figures are comparable, as are the efficacy values for the single- or double application regimen. Overall, *i.e.* across the zones, the test item performs the level of standard reference products, even though zonally-averaged assessments sometimes point at its slightly lower efficacy compared to standards.
The number of submitted trials certainly allows for the authorization in the Maritime and the NE zones, whereas the SE zone is represented by 5 trials only, all of them carried out in RO. The remaining cMSs in that zone are kindly advised to decide whether the SEPTTR/TTLWI data set smaller than required and focused on one region represents conditions of the entire EPPO zone. To the opinion of zRMS, however, the situation is acceptable, considered the acknowledged status of the active ingredient of the ADM.03500.F.2.B and the fact that 23 trials carried out in **wheat**, in the SE EPPO zone (HU, RO, SK) confirm the efficacy against the same target.

3.2.3.14 Control of *Puccinia recondita* (PUCCRE) on winter- and spring triticale (uses 4, 9, 14, 20, 31, 36, 40, 54)

Table 3.2.3.14-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Puccinia recondita on winter- and spring triticale

EPPO zone	EU Reg. Zone	Country	2019	2020	Sum
Maritime	**Central**	CZ	8	2	10
		DE	1	1	2
Total Maritime			***9***	***3***	***12***
North-East	**Central**	PL	4		***4***
South-East	**Central**	RO	3	2	***5***
Total			***16***	***5***	***21***

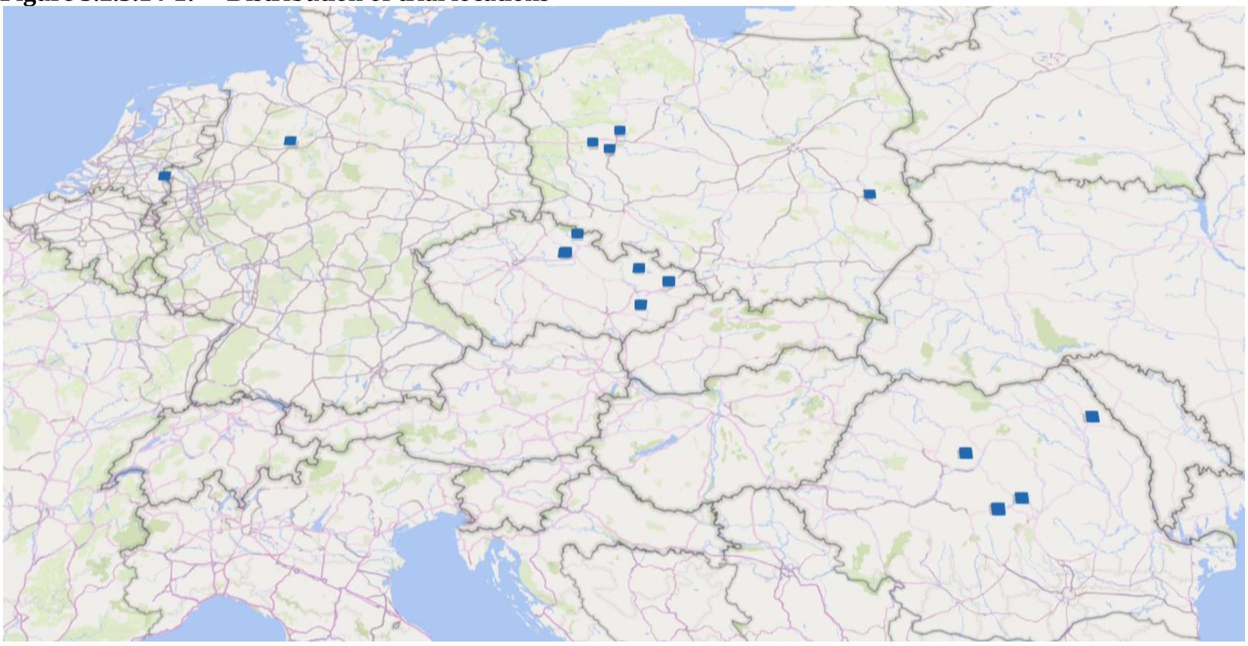
Table 3.2.3.14-2: Location of efficacy trials in the EPPO climatic zones

Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Czech Republic (CZ)	10		
Germany (DE)	2		
Poland (PL)		4	
Romania (RO)			5
Total	**12**	**4**	**5**

Table 3.2.3.14-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)
Experimental design	Plot design	Randomised blocks (21),
	Plot size	18~~-30~~ -24.5 m²
	Number of replications	4 (21)
Crop	Trials per crop	Winter triticale (21)
	Varieties per crop	Agrano, Aliko, Cedrico, Gringo, Haiduc, KM 342-15, Lombardo, ~~Magnat,~~ Maros, Rotondo, Securo, Tomko, Triamant, Trismart, Tubus, Tulus
	Sowing period	Maritime zone: from September (19) to October (17) North-East zone: from September (13) to October (02) South-East zone: from September (29) to October (30
Application	Crop stage (BBCH)* at application	1st application: ~~31 to 43~~ 32-57 2nd application: 49 to 69
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (2); 2 (19)
	Spray volume	200-300
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Puccinia recondita* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 73 to 83 (BBCH).
Other relevant information	Natural / artificial innoculation	21 / -
	Field / Lab / GH	21 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.14-1: Distribution of trial locations



Efficacy data for the control of *Puccinia recondita* on triticale are presented from 21 efficacy trials. The summarised results for the central European regulation zone are presented in table 3.2.3.14-4 and table 3.2.3.14-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.
In the majority of trials 2 applications have been performed. Thus, the summarised results of a rating carried out at the day of the 2nd application (or just before) are presented in addition (table 3.2.3.14-4a). Due to partly very low levels of infestation at that point of time, also trial results were considered valid for this assessment if the level of infestation in the untreated control less than 5 % (but > 1 %).

The mean infestation in the untreated plots was 17.1 % (range: 3.2 % to 43 %), this represents acceptable to very good conditions for product testing. The results are considered valid.

Table 3.2.3.14-4: Efficacy of ADM.3500.F.2.B against Puccinia recondita on winter triticale (relevant assessment) compared to the zonal reference product(s) (assessment following double application)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia recondita*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
TLLWI	PUCCRE	Maritime	12	20.1	7.5-43	91	91.9	64-100	Proline | 0.8	87.9	90.5	65-100
		N-East	4	22.0	7-30.6	95.5	97.3	89-98	Proline | 0.8	96.3	97.2	93-98
		S-East	5	6.1	3.2-8.3	89.5	91.9	81-94	Proline | 0.8	88.4	90.4	78-95
		Across zones	**21**	**17.1**	**3.2-43**	**91.5**	**92.7**	**64-100**	**Proline | 0.8**	**89.6**	**91.5**	**65-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Across the EPPO climatic zones, based on the results of 30 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 91.5 % (median 92.7 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Puccinia recondita* in the vast majority of the trials (table 3.2.3.14-4). The performance is comparable to the performance provided by the zonal reference product Proline (200 g/ha prothioconazole - mean: 89.6 %, median: 91.5 %).

Table 3.2.3.14-4a: Efficacy of ADM.3500.F.2.B against Puccinia recondita on winter triticale at the time of the 2nd application compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia recondita*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference product(s)			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TTLWI	PUCCRE	Maritime	2	4.1	2.5-5.6	100.0	.	100-100	Proline | 0.8	100.0	.	100-100
		N-East	4	8.2	7.2-10.3	98.0	99.5	93-100	Proline | 0.8	96.6	98.4	90-100
		S-East	1	7.8	.	79.2	.	.	Proline | 0.8	76.8	.	.
		Across zones	**7**	**6.9**	**2.5-10.3**	**95.9**	**100.0**	**79-100**	**Proline | 0.8**	**94.7**	**100.0**	**77-100**

At the time of the 2nd application, in the trials which could be considered, the mean level of infestation was 6.9 % (range 2.5 to 10.3 %). Based on the results of 13 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 95.9 % (range 79 to 100 %). The performance is fully comparable to the performance provided by the zonal reference products Proline and Proline 275 (200 g/ha prothioconazole - mean: 94.7 %, range: 77 to 100 %).

In table 3.2.3.14-5 a comparison of ADM.3500.F.2.B to the additionally applied reference products is presented. ADM.3500.F.2.B tended to be superior to Delaro 325 SC (2 results) and comparable to all other additionally applied reference products included in the tests.

Table 3.2.3.14-5: Efficacy of ADM.3500.F.2.B against Puccinia recondita on winter triticale compared to the additionally applied reference products

Crop	Patho-gen (EPPO-code)	Efficacy on *Puccinia recondita*									
		N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
TTLWI	PUCCRE	2	14.8	7-22.5	93.3	.	89-97	Delaro 325 SC | 1	66.7	.	61-73
		2	5.8	3.2-8.3	93.7	.	93-94	Elatus Era |1	95.6	.	96-96
		6	19.9	7.5-43	87.8	91.1	64-100	Hutton | 0.8	92.0	92.9	81-100
		2	29.2	27.8-30.6	97.7	.	97-98	Leander & Elatus Era | 0.75 & 0.8	99.8	.	100-100
		2	10.1	9.1-11.1	94.0	.	88-100	Osiris | 3	93.0	.	86-100
		1	13.8	.	100.0	.	.	Zakeo Opti | 2.5	100.0	.	.

Results for the control of *Puccinia recondita* are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.14-4, there are no substantial differences between the climatic zones.

In 21 efficacy trials with a relevant infestation of *Puccinia recondita* yield was taken. The results are presented in table 3.2.3.14-6 (quantity of yield) and table 3.2.3.14-7 (quality of yield).

Table 3.2.3.14-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference prod-uct	
			Mean	Range	Mean	Range	Mean	Range
Maritime	TTLSS	12	69.0	41.8-87.9	114.5	103-129	113.7	103-125
North-East	TTLSS	4	59.1	46.4-81.4	114.5	103-128	116.9	103-135

South-East	TTLSS	5	54.5	48.8-63	110.2	109-113	110.3	109-112
Across EPPO zones	**TTLSS**	**21**	**63.7**	**41.8-87.9**	**113.5**	**103-129**	**113.5**	**103-135**

The results clearly demonstrate the benefits provided by the control of *Puccinia recondita* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 13.5 %. In 17 of 21 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 5 %.

Table 3.2.3.14-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		**Quality parameters of yield**			
		TGW		**HLW**	
		ADM.3500.F.2.B 0.8 L/ha	**Zonal Reference Product(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**
Maritime	Mean	105.8	106.1	101.5	101.4
	Range	99-110	98-112	100-106	99-103
	Nº	12	12	12	12
N-East	Mean	103.6	104.0	100.8	100.5
	Range	102-105	102-106	100-101	99-101
	Nº	4	4	4	4
S-East	Mean	104.6	103.0	102.7	102.7
	Range	98-115	99-110	101-105	102-105
	Nº	5	5	5	5
Across zones	**Mean**	**105.1**	**105.0**	**101.7**	**101.5**
	Range	**98-115**	**98-112**	**100-106**	**99-105**
	Nº	**21**	**21**	**21**	**21**

TGW = Thousand grain weight; HLW = Hectolitre weight

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Puccinia recondita* on triticale.

zRMS comments:

3.2.3.14 – PUCCRE in winter and spring triticale:

The data set got reduced by 2/3rds – from 21 to 7 trials – in order to demonstrate efficacy after single application separately. Out of the two CZ trials one is invalid (2.5% UNCK infestation). The only two German trials are not included in the single application summary as they would bring in no relevant data. Only one of five RO trials demonstrates single application data.

The NE zone set is most reliable of the three, and it may enable authorization of the use in the NE zone, when supplemented by more trials from the neighbouring Czech Republic, which are valid although showing only double-application efficacy. Moreover, as the efficacy level in the NE zone is comparable between the two application regimens and the data come from the same 4 trials each time, such situation is accepted by the zRMS.

As mentioned above, only single trials show efficacy following single application in each of the Maritime and the SE EPPO zones. The authorization decision in these zones is therefore left in the hands of the concerned MSs, the more that the SE zone data set is again restricted to a single country.

3.2.3.15 Control of *Puccinia striiformis* (PUCCST) on triticale (uses 4, 9, 14, 20, 31, 36, 40, 54)

No results from field trials are available for the intended use 'Control of *Puccinia striiformis* on triticale'. For the provision of the efficacy of ADM.3500.F.2.B on this pest on triticale it is referred to the data presented for the control of *Puccinia striiformis* on wheat (section 3.2.3.3).

Based on 34 trials carried out in the different EPPO climatic zones in 2018, 2019, and 2020 (Maritime [14 trials], North-East [8 trials], South-'East [12 trials], the performance of ADM.3500.F.2.B applied at 0.8 L/ha on *Puccinia striiformis* is demonstrated (table 3.2.3.3-4). Across the EPPO climatic zones, the mean efficacy of ADM.3500.F.2.B was 88.5 % (median 91.4 %, range 50 % to 100 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Puccinia striiformis*. The performance is fully comparable to the performance provided by the zonal reference products (mean: 87.6 %, median: 90.4 %, range 50 % to 100 %).

It can be concluded that ADM.3500.F.2.B is also suitable for the control of *Puccinia striiformis* on triticale.

zRMS comments:

3.2.3.15 – PUCCST in triticale:

No trials in Triticale have been submitted to support this use directly. However, extrapolation for this target pathogen is possible. The acceptance of this use by zRMS is based on 15 trials in **wheat**, showing efficacy after single application (Table 3.2.3.3-4a), and the remaining of the total of 34 trials submitted by the applicant, showing only assessments following double-application (Table 3.2.3.3-4). For other details see the respective use:
Control of Puccinia striiformis (PUCCST) on winter- and spring wheat (uses 1, 6, 11, 17, 28, 33, 38, 42, 45, 52)
and the zRMS comments that follow.

3.2.3.16 Control of *Puccinia coronata* (PUCCCO) on oats (uses 15, 21)

Table 3.2.3.16-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Puccinia coronata on oats

EPPO zone	EU Reg. Zone	Country	2019	2020	Sum
Maritime	Central	BE	1		1
		CZ	2		2
		DE		3	3
		NL		2	2
Total Central			**3**	**5**	**8**
Supporting trials					
North-East	Northern	LV		1	**1**
Total			**3**	**6**	**9**

Table 3.2.3.16-2: Location of efficacy trials in the EPPO climatic zones

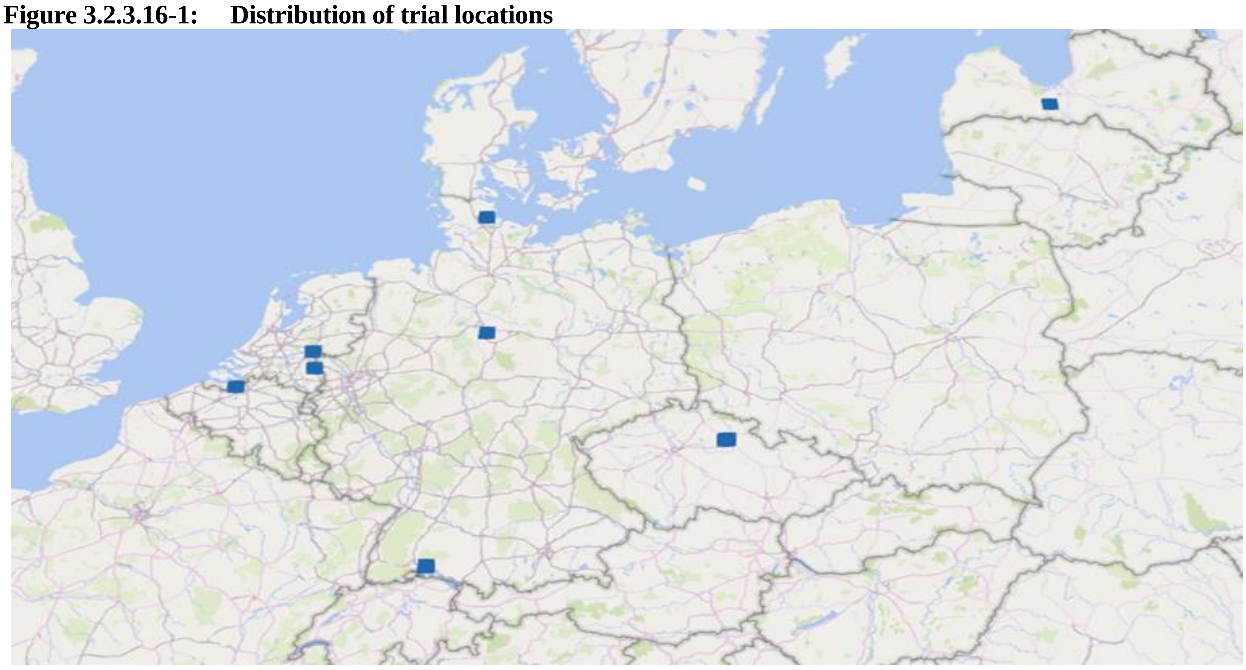
Country	EPPO zone	
	Maritime	**North-East**
Belgium (BE)	1	
Czech Republic (CZ)	2	
Germany (DE)	3	
Netherlands (NL)	2	
Latvia (LV)		1
Total	**8**	**1**

Table 3.2.3.16-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/026(4)

Experimental design	Plot design	Randomised blocks (9),
	Plot size	17.5-30 m²
	Number of replications	4 (9)
Crop	Trials per crop	Oats (9)
	Varieties per crop	Albatros, Apollon, Korok, Laima, Max, Symphony
	Sowing period	Maritime zone: from March (27) to May (05) N-East zone: April (17)
Application	Crop stage (BBCH)* at application	1st application: 31 to 55 2nd application: 54 to 65
	Timing	Foliar application at infestation and/or re-infestation
	Number of applications	1 (4); 2 (5)
	Spray volume	200-300
Assessment	Assessment types	% of pest severity
	Assessment dates	According to EPPO guideline PP 1/026 relevant assessments of *Puccinia coronata* infestations should be carried out preferably in the area of crop GS 75 (BBCH). In the trials the crop GS ranged from 63 to 85 (BBCH).
Other relevant information	Natural / artificial innoculation	9 / -
	Field / Lab / GH	9 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.16-1: Distribution of trial locations



Efficacy data for the control of *Puccinia coronata* on oats are presented from 9 efficacy trials, 8 trials carried out in the central European regulation zone and for support 1 trial carried out in the Northern European regulation zone. The summarised results are presented in table 3.2.3.16-4 and table 3.2.3.16-5. As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 75) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.

The mean infestation in the untreated plots was 10.2 % (range: 7.1 % to 21.4 %), this represents acceptable to good conditions for product testing. The results are considered valid.

Table 3.2.3.16-4: Efficacy of ADM.3500.F.2.B against Puccinia coronata on winter oats compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Puccinia coronata*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
TLLSS	PUCCCO	Maritime*	8	10.4	7.1-21.4	93.8	95	83-100	Proline | 0.8	94.6	95	82-100
		N-East**	1	7.9	.	100	.	.	Proline | 0.8	72.4	.	.
		Across zones	**9**	**10.2**	**7.1-21.4**	**94.5**	**96.8**	**83-100**	**Proline | 0.8**	**92.2**	**93.3**	**72-100**
	single application	Across zones	4	8.0		95.0				88.8		
	double application	Across zones	5	12.0		93.9				94.8		

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control
*incl. 3 trials showing results after single application (CZ (2) and DE)
**LV20FEAVESP464A is single application a trial

Across the EPPO climatic zones, based on the results of 9 trials, the mean efficacy of ADM.3500.F.2.B applied at the rate of 0.8 L/ha was 94.5 % (median 96.8 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Puccinia coronata* in all trials (table 3.2.3.16-4). The performance is comparable to the performance provided by the zonal reference product Proline (200 g/ha prothioconazole - mean: 92.2 %, median: 93.3 %).

Table 3.2.3.16-5: Efficacy of ADM.3500.F.2.B against Puccinia coronata on winter oats compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Puccinia coronata*									
		N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.8 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
AVESA	PUCCCO	2	10.4	7.1-13.8	91.6	.	83-100	Amistar | 1	56.3	.	42-71
		3	12.9	7.2-21.4	95.9	100	88-100	Aviator Xpro | 1	96.8	99.9	90-100
		2	8.3	7.7-8.9	95	.	93-97	Tebusip | 1	92.9	.	90-95

Compared to the additionally applied reference products, ADM.3500.F.2.B tended to be superior to Delaro 325 SC (2 results) and comparable to all other additionally applied reference products included in the tests. – (table 3.2.3.16-5).

Results for the control of *Puccinia coronata* are available from EPPO zones Maritime and North-East. As demonstrated by the results presented in table 3.2.3.16-4, there are no substantial differences between the climatic zones and between the concerned European regulation zones.

In 9 efficacy trials with a relevant infestation of *Puccinia coronata* yield was taken. The results are presented in table 3.2.3.16-6 (quantity of yield) and table 3.2.3.16-7 (quality of yield).

Table 3.2.3.16-6: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.8 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	AVESA	8	52.5	26.7-88.6	108	89-126	110	103-129
North-East	AVESA	1	69.3	.	112.5	.	109.6	.
Across EPPO zones	**AVESA**	**9**	**54.4**	**26.7-88.6**	**108.5**	**89-126**	**110**	**103-129**

The results clearly demonstrate the benefits provided by the control of *Puccinia coronata* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 8.5 %. In 5 of 9 trials the yield of the plots treated with ADM.3500.F.2.B at 0.8 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones and between the concerned European regulation zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 3 %.

Table 3.2.3.16-7: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		Quality parameters of yield			
		TGW		HLW	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)
Maritime	Mean	102.7	101.6	100.7	101.3
	Range	97-108	95-107	98-102	99-102
	Nº	7	7	8	8
N-East	Mean	102.5	102.1	100.9	99.9
	Range	102-102	102-102	101-101	100-100
	Nº	1	1	1	1
Across zones	**Mean**	**102.7**	**101.7**	**100.7**	**101.1**
	Range	**97-108**	**95-107**	**98-102**	**99-102**
	Nº	**8**	**8**	**9**	**9**

TGW = Thousand grain weight; HLW = Hectolitre weight

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Puccinia coronata* on oats.

zRMS comments:

3.2.3.16 – PUCCCO in oats:

Four out of the nine trials in oats show the efficacy after single application, and the average efficacy is comparable to the one followig double treatment, at least in the test item ADM.03500.F.2.B (see the added rows in the Table 3.2.3.16-4). The data set represents practically the Maritime zone alone. According to the GAP table the authorization is sought in that zone only, and to the opinion of zRMS it may be granted.

3.2.3.17 Control of *Sclerotinia sclerotiorum* (SCLESC) on winter- and spring oilseed rape (uses 5, 10, 16, 22, 32, 37, 41, 44, 47, 55)

Table 3.2.3.17-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Sclerotinia sclerotiorum on winter- and spring oilseed rape

EPPO zone	EU Reg. Zone	Country	2018	2019	Sum
Maritime	**Central**	CZ		2	2
		DE	3		3
Total Maritime			***3***	***2***	***5***
North-East	**Central**	PL	4	4	8
South-East	**Central**	HU	4	3	7
		SK		2	2
Total South-East			***4***	***5***	***9***
Total			**11**	**11**	**22**

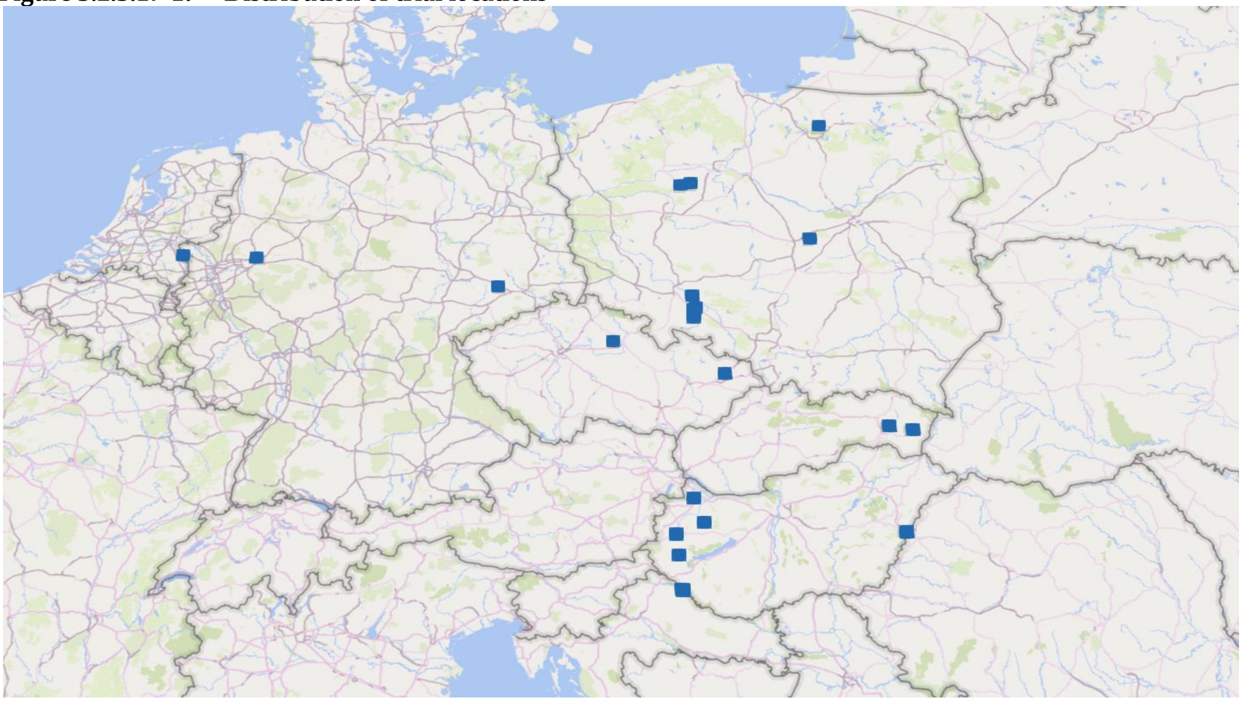
Table 3.2.3.17-2: Location of efficacy trials in the EPPO climatic zones

Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Czech Republic (CZ)	2		
Germany (DE)	3		
Hungary (HU)			7
Poland (PL)		8	
Slovakia (SK)			2
Total	**5**	**8**	**9**

Table 3.2.3.17-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/078(3)
Experimental design	Plot design	Randomised blocks (22),
	Plot size	21-35 m²
	Number of replications	4 (22)
Crop	Trials per crop	Winter oilseed rape (22)
	Varieties per crop	Alison, Architect, ~~Architect,~~ Arsenal, Cesario, ~~Cortes,~~ Einstein, Exception, Expression, Exprit, Harry, Hevelius, Hybrirock, Marc, Memori, Monolit, Penn, PR46W20, Rohan, Saveo, Shrek, Vesuvio
	Sowing period	Maritime zone: from August (22) to August (28) North-East zone: from August (22) to August (28) South-East zone: August (20) to September (04)
Application	Crop stage (BBCH)* at application	60 to 67
	Timing	Foliar application at infestation
	Number of applications	1 (22)
	Spray volume	200-300
Assessment	Assessment types	% of pest severity; % of pest incidence
	Assessment dates	According to EPPO guideline PP 1/078 relevant assessments of *Sclerotinia sclerotiorum* infestations should be carried out preferably in the area of crop GS 70 to 85 (BBCH). In the trials the crop GS ranged from 82 to 87 (BBCH).
Other relevant information	Natural / artificial innoculation	18 / 4
	Field / Lab / GH	22 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.17-1: Distribution of trial locations



Efficacy data for the control of *Sclerotinia sclerotiorum* on oilseed rape are presented from 22 efficacy trials. The summarised results for the central European regulation zone are presented in table 3.2.3.17-4 and table 3.2.3.17-5 (stem infestation), and table 3.2.3.17-6 and table 3.2.3.17-7 (pod infestation). As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 70 to 85) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.

The mean pest severity on stems in the untreated plots was 22.4 % (range: 10.1 % to 55 %) in 19 trials, respectively the mean infestation index was 1.8 (range 1.3 to 2.3) in 3 trials. The mean pest incidence on stems in the untreated plots was 37.4 % (range: 5 % to 68 %). This represents good conditions for product testing. The results are considered valid.

Across the EPPO climatic zones, based on the results of 22 trials, the mean reduction of pest severity on stems by ADM.3500.F.2.B applied at the rate of 0.7 L/ha was 71.8 % (median 73.6 %) and the mean reduction of pest incidence was 68 % (median 66.7 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Sclerotinia sclerotiorum* in the vast majority of the trials (table 3.2.3.17-4). The performance is comparable to the performance provided by the zonal reference products Proline (175 g/ha prothioconazole – mean reduction of pest severity: 70.3 %, median: 75.9 % – mean reduction of pest incidence: 66.5 %; median: 66.1 %).

Table 3.2.3.17-4: Efficacy of ADM.3500.F.2.B against Sclerotinia sclerotiorum on stems of winter oilseed rape compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Sclerotinia sclerotiorum*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.7 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
Pest severity on stems												
BRSNW	SCLESC	Maritime	5	16.2	2.3-24.2	62.2	63.1	35-100	Proline | 0.7	55.4	44.4	33-100
		N-East	8	26.9	12.3-55	83.1	82.4	68-98	Proline | 0.7	83.7	81	72-99
		S-East	9	14.9	1.3-26.1	67.1	72.4	19-91	Proline | 0.7	66.7	74.3	19-90
		Across zones	**22**	**19.6**	**1.3-55**	**71.8**	**73.6**	**19-100**	**Proline | 0.7**	**70.3**	**75.9**	**19-100**
		Across zones	**17*** Mar(2) NE(8) SE(7)	**23.0**	**10.1-55.0**	**78.9**		**63.1-97.5**		**77.3**		**37.9-98.8**
Pest incidence on stems												
BRSNW	SCLESC	Maritime	5	41.7	5-68	67.2	58.7	47-100	Proline | 0.7	62.1	52.9	35-100
		N-East	8	38.5	19-61.5	73.5	72.5	55-93	Proline | 0.7	75.1	72.2	63-97
		S-East	9	34.0	12-49	63.6	65.6	48-85	Proline | 0.7	61.3	62.5	45-84
		Across zones	**22**	**37.4**	**5-68**	**68.0**	**66.7**	**47-100**	**Proline | 0.7**	**66.5**	**66.1**	**35-100**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control
*after exclusion of 3 trials with suboptimal UNCK infestation and 2 trials using undisclosed formula for PESSEV index calculation: DE18FEBRSNW918B and DE18FEBRSNW918C, which have been therefore considered invalid.

Table 3.2.3.17-5: Efficacy of ADM.3500.F.2.B against Sclerotinia sclerotiorum on stems of winter oilseed rape compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Sclerotinia sclerotiorum*									
		N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.7 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
Pest severity on stems											
BRSNW	SCLESC	4	15.4	1.9-26.1	68.5	73.4	36-91	Folicur | 0.7	69.5	72	43-91
		8	26.9	12.3-55	83.1	82.4	68-98	Propulse 250 SE | 1	85.9	86.7	70-99
		3	11.3	1.3-22.5	54.1	70.4	19-72	Tebusha 25 EW | 1	48.9	59.3	17-70
Pest incidence on stems											
BRSNW	SCLESC	4	36.5	21-49	64.1	61.7	48-85	Folicur | 0.7	65.5	67	40-88
		8	38.5	19-61.5	73.5	72.5	55-93	Propulse 250 SE | 1	74.6	76.8	53-97
		3	23.3	12-32	60.4	61.5	54-66	Tebusha 25 EW | 1	53.7	53.8	42-66

With respect to stem infestions by *Sclerotinia sclerotiorum*, ADM.3500.F.2.B tends to be comparable to the additionally applied reference products Folicur (1 result), Propulse (8 results), and Tebusha 25 EW (3 results).

Relevant infections of *Sclerotinia sclerotiorum* on pods were reported from 3 trials. The mean pest severity on pods in the untreated plots was 9 % (range: 4.8 % to 17.1 %). The mean pest incidence on pods in the untreated plots was 41.6 % (range: 5 % to 86.5 %). This represents good conditions for product testing. The results are considered valid.

Table 3.2.3.17-6: Efficacy of ADM.3500.F.2.B against Sclerotinia sclerotiorum on pods of winter oilseed rape compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Sclerotinia sclerotiorum*									
			N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.7 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
Pest severity on pods												
BRSNW	SCLESC	N-East	2	11.1	5-17.1	88.3	.	82-95	Proline | 0.7	81.2	.	72-90
		S-East	1	4.8	.	91.0	.	.	Proline | 0.7	91.3	.	.
		Across zones	**3**	**9.0**	**4.8-17.1**	**89.2**	**91**	**82-95**	**Proline | 0.7**	**84.6**	**90**	**72-91**
Pest incidence on pods												
BRSNW	SCLESC	N-East	2	19.1	5-33.3	76.8	.	59-95	Proline | 0.7	64.2	.	38-90
		S-East	1	86.5	.	76.3	.	.	Proline | 0.7	76.3	.	.
		Across zones	**3**	**41.6**	**5-86.5**	**76.6**	**76.3**	**59-95**	**Proline | 0.7**	**68.2**	**76.3**	**38-90**

Across the EPPO climatic zones, based on the results of 3 trials, the mean reduction of pest severity on pods by ADM.3500.F.2.B applied at the rate of 0.7 L/ha was 89.2 % (median: 91 %)and the mean reduction of pest incidence was 76.6 % (median: 76.3 %). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Sclerotinia sclerotiorum* infestions of pods (table 3.2.3.17-6). The performance is comparable to the performance provided by the zonal reference product Proline (175 g/ha prothioconazole – mean reduction of pest severity: 84.6 %, median: 90 % – mean reduction of pest incidence: 68.2 %; median: 76.3 %).

Table 3.2.3.17-7: Efficacy of ADM.3500.F.2.B against Sclerotinia sclerotiorum on pods of winter oilseed rape compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Sclerotinia sclerotiorum*									
		N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.7 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
Pest severity on pods											
BRSNW	SCLESC	1	4.8	.	91.0	.	.	Folicur | 0.7	90.9	.	.
		2	11.1	5-17.1	88.3	.	82-95	Propulse 250 SE | 1	74.5	.	59-90
Pest incidence on pods											
BRSNW	SCLESC	1	86.5	.	76.3	.	.	Folicur | 0.7	72.8	.	.
		2	19.1	5-33.3	76.8	.	59-95	Propulse 250 SE | 1	60.8	.	32-90

With respect to pod infestions by *Sclerotinia sclerotiorum*, ADM.3500.F.2.B tends to be comparable to the additionally applied reference product Folicur (1 result), and slightly superior to the additionally applied reference product Propulse (2 results) – (table 3.2.3.17-7).

Results for the control of *Sclerotinia sclerotiorum* on oilseed rape are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.17-4 and table 3.2.3.17-6, there are no substantial differences between the climatic zones.

In 22 efficacy trials with a relevant infestation of *Sclerotinia sclerotiorum* yield was taken. The results are presented in table 3.2.3.17-8 (quantity of yield) and table 3.2.3.17-9 (quality of yield).

Table 3.2.3.17-8: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.7 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	BRSNW	5	36.8	22.4-47	102.4	97-108	104.1	100-109
North-East	BRSNW	8	29.4	24.1-36.7	116.3	107-126	116.0	108-128
South-East	BRSNW	9	31.5	20.9-51.4	106.1	100-113	106.0	100-112
Across EPPO zones	**BRSNW**	**22**	**32.0**	**20.9-51.4**	**109.0**	**97-126**	**109.2**	**100-128**

Table 3.2.3.17-9: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		Quality parameters of yield			
		TGW		OC	
		ADM.3500.F.2.B 0.7 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.7 L/ha	Zonal Reference Product(s)
Maritime	Mean	102.3	103.3	100.2	100.1
	Range	100-105	101-105	100-100	100-100
	Nº	5	5	2	2
N-East	Mean	102.9	103.7	101.4	101.8
	Range	99-105	100-107	100-102	101-102
	Nº	8	8	4	4
S-East	Mean	103.5	104.1	100.9	100.7
	Range	95-112	98-112	100-102	100-102
	Nº	9	9	5	5
Across zones	**Mean**	**103.0**	**103.8**	**100.9**	**101.0**
	Range	**95-112**	**98-112**	**100-102**	**100-102**
	Nº	**22**	**22**	**11**	**11**

TGW = Thousand grain weight; OC = Oil content

The results clearly demonstrate the benefits provided by the control of *Sclerotinia sclerotiorum* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 9 %. In 6 of 22 trials the yield of the plots treated with ADM.3500.F.2.B at 0.7 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 3 %.

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Sclerotinia sclerotiorum* on oilseed rape.

zRMS comments:

3.2.3.17 – SCLESC in winter and spring oilseed rape:

In the summary of efficacy based on PESSEV on stem, Table 3.2.3.17-4, the applicant has included all 22 available trials, irrespective of their level of infestation and other aspects. Therefore the zRMS has proposed an alternative summary, excluding 5 trials of invalid or doubtful status (the reasons are explained in the table`s footnote).
The summary based on PESINC on stem is considered correct, although it must be noted that in fungicides, the efficacy estimates that are based on disease incidence are less often used compared to those based on the pathogen`s severity.
The efficacy estimates from pod infestation are scarce (low number of trials), hence the main criterion of the acceptance of this use is efficacy based on the severity on plant stem. The test item performed the level comparable to standards. The number of data points is sufficient for the NE and the SE EPPO zones, whereas it is too low in the Maritime zone (2 trials after exclusion of 3). The use can be authorized in the NE and the SE zones only.

Considered the circumstances the applicant had additionally proposed using 11 trials from outside of the Central zone, as the data supporting the use against SCLESC in the oilseed rape. The trials, as listed below, are included in the BAD but were not used in the initial dRR:

EPPO zone	EU Reg. zone	MS	2018	2019	2020	Sum
Maritime	Northern	DK		1		6
	Southern	FR	2	2	1	
North-East	Northern	LV		2	3	5

The zRMS has evaluated the supporting data set proposed and considered only six of the trials valid, whereas the remaining five trials (FR (3) and LV(2) were considered invalid for miscellaneous reasons including subcritical an infestation level. The **efficacy summary (SCLESC in BRSNW, PESSEV index on stem)** of the five valid trials, including 2 from the Czech Republic (main data), 2 from France (South Reg.) and 1 from Denmark (North Reg.) (supporting data) is shown below (the three valid LV trials are not included in the summary for Latvia is not neighbouring the Central zone directly).

	UNCK	ADM.03500.F.2.B	STDRD
mean	21,9	70,5	64,4
min	11,3	50,3	37,9
max	38,4	93,2	92,1
n=	5	5	5

The cMSs in the Maritime EPPO zone are kindly encouraged to consider individually the supportive value of the North and the South regulatory zones` data for authorization of the use in the part of the Central zone that is located in the Maritime EPPO zone.

3.2.3.18 Control of *Alternaria brassicae* (ALTEBA) on winter- and spring oilseed rape (uses 5, 10, 16, 22, 32, 37, 41, 44, 47, 55)

Table 3.2.3.18-1: Overview and distribution of field trials carried out to determine the efficacy of ADM.3500.F.2.B on Alternaria brassicae on winter- and spring oilseed rape

EPPO zone	EU Reg. Zone	Country	2019	2020	Sum
Maritime	Central	UK		1	1
North-East	Central	PL	2		2
South-East	Central	SK	1		1
Total Central			***3***	***1***	***4***
Supporting trials					
Maritime	Northern	DK	1		1
	Southern	FR	2	2	4
Total Maritime			***3***	***2***	***5***
North-East	Northern	LV	1	1	2
Total supporting trials			***4***	***3***	***7***
Total			**7**	**4**	**11**

Table 3.2.3.18-2: Location of efficacy trials in the EPPO climatic zones

Country	EPPO zone		
	Maritime	**North-East**	**South-East**
Denmark (DK)	1		
France (FR)	4		
Latvia (LV)		2	
Poland (PL)		2	
Slovakia (SK)			1
United Kingdom (UK)	1		
Total	**6**	**4**	**1**

Due to the low number of available trials carried out within the central European regulation zone, further trials carried out in climatic EPPO zones being also relevant for the central regulation zone (Maritime, North-East) are included for support.

Table 3.2.3.18-3: Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/135 (3/4); PP 1/152 (3/4), PP 1/181 (3/4)
	Specific guidelines	EPPO PP 1/078(3)
Experimental design	Plot design	Randomised blocks (11),
	Plot size	18.75-32.5 m²
	Number of replications	4 (11)
Crop	Trials per crop	Winter oilseed rape (11)
	Varieties per crop	Architect, Cortes, Exception, Exclaim, Exploration, ~~Exposition,~~ Expression, Grizzly, Rohan, Safer, Shrek, Umberto
	Sowing period	Maritime zone: from August (20) to October (05) North-East zone: from August (10) to August (25) South-East zone: August (31)
Application	Crop stage (BBCH)* at application	61 to 69
	Timing	Foliar application at infestation
	Number of applications	1 (11)
	Spray volume	200-300
Assessment	Assessment types	% of pest severity; % of pest incidence
	Assessment dates	According to EPPO guideline PP 1/078 relevant assessments of *Sclerotinia sclerotiorum* infestations should be carried out preferably in the area of crop GS 70 to 85 (BBCH). In the trials the crop GS ranged from 79 to 85 (BBCH).
Other relevant information	Natural / artificial innoculation	11 /
	Field / Lab / GH	11 / - / -
Reference products		please refer to table 3.2-6

Figure 3.2.3.18-1: Distribution of trial locations

Efficacy data for the control of *Alternaria brassicae* on oilseed rape are presented from 11 efficacy trials. The summarised results are presented in table 3.2.3.18-4 and table 3.2.3.18-5 (pod infestation), and table

3.2.3.18-6 (stem infestation). As the relevant assessment, the rating carried out at (or close by) the preferred crop growth stage (BBCH 70 to 85) is used. Only in cases where infestation levels have increased lately or have decreased over time to a level considered not valid for a meaningful evaluation, later or earlier ratings were defined to be relevant. If appropriate, beside the mean, the median was calculated in addition for the assessment across trials to reduce the effect of outliers.

The mean pest severity on pods in the untreated plots was 5.7 % (range: 2.1 % to 11 %). The mean pest incidence on pods in the untreated plots was 58.1 % (range: 27.3 % to 95.5 %). This represents just acceptable to good conditions for product testing. The results are considered valid.

Table 3.2.3.18-4: Efficacy of ADM.3500.F.2.B against Alternaria brassicae on pods of winter oilseed rape compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	N° of trials	Efficacy on *Alternaria brassicae*								
				Disease level in UTC (%)		ADM.3500.F.2.B [0.7 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
1	2		4	5		6			7			
Pest severity on pods												
BRSNW	ALTEBA	Maritime	5 (DK, FR, UK)	5.6	2.1-11	85.5	86.3	72-92	Proline | 0.7 Proline 275 | 0.63	74.5	79.6	49-94
		N-East	4 (PL, LV)	6.0	2.2-8.3	80.3	85.7	61-89	Proline | 0.7	85.3	86.1	81-88
		S-East	1 (SK)	5.2	.	90.6	.	.	Proline | 0.7	88.6	.	.
		Across zones	**10**	**5.7**	**2.1-11**	**83.9**	**87.6**	**61-92**	**Proline | 0.7 Proline 275 | 0.63**	**80.2**	**86.1**	**49-94**
Pest incidence on pods												
BRSNW	ALTEBA	Maritime	4 (FR, UK)	65.8	50-95.5	58.5	62.7	29-80	Proline | 0.7 Proline 275 | 0.63	45.8	43.1	17-80
		N-East	4 (PL, LV)	44.8	27.3-58	47.3	49.5	27-64	Proline | 0.7	52.6	53.2	44-60
		S-East	1 (SK)	81.0	.	64.2	.	.	Proline | 0.7	61.7	.	.
		Across zones	**9**	**58.1**	**27.3-95.5**	**54.2**	**63.2**	**27-80**	**Proline | 0.7 Proline 275 | 0.63**	**50.6**	**46.8**	**17-80**

1 crop
2 scientific name (EPPO-Code)
4 number of results test/reference product
5 disease level (% resp. #/unit) in untreated control (UTC)
6 average / median, standard deviation, minimum, maximum test product in % control
7 average / median, standard deviation, minimum, maximum reference product in % control

Table 3.2.3.18-5: Efficacy of ADM.3500.F.2.B against Alternaria brassicae on pods of winter oilseed rape compared to the additionally applied reference products

Crop	Pathogen (EPPO-code)	Efficacy on *Alternaria brassicae*									
		N° of trials	Disease level in UTC (%)		ADM.3500.F.2.B [0.7 L/ha]			Additionally applied reference product(s)			
			Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
Pest severity on pods											
BRSNW	ALTEBA	1	2.1	.	92.0	.	.	Plover | 0.5	87.5	.	.
		2	7.7	7-8.3	88.9	.	89-89	Propulse 250 SE | 1	88.2	.	88-88
		3	5.6	2.2-8.3	78.6	82.6	61-92	Prosaro | 1	83.4	87.7	67-95
Pest incidence on pods											
BRSNW	ALTEBA	1	50.0	.	80.0	.	.	Plover | 0.5	80.0	.	.
		2	57.5	57-58	63.5	.	63-64	Propulse 250 SE | 1	60.0	.	58-62

Across the EPPO climatic zones, based on the results of 11 trials, the mean reduction of pest severity on pods by ADM.3500.F.2.B applied at the rate of 0.7 L/ha was 83.9 % (median 87.6 %; 10 results) and the mean reduction of pest incidence was 54.2 % (median 63.2 %; 9 results). The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Alternaria brassicae* (table 3.2.3.18-4). The performance is comparable to the performance provided by the zonal reference products Proline and Proline 275 (175 g/ha prothioconazole – mean reduction of pest severity: 80.2 %, median: 86.1 % – mean reduction of pest incidence: 50.6 %; median: 46.8 %).

With respect to pod infestions by *Alternaria brassicae*, ADM.3500.F.2.B tends to be comparable to the additionally applied reference products Plover (1 result), Propulse (2 results), and Prosaro (3 results) (table 3.2.3.18-5).

Relevant infections of *Alternaria brassicae* on stems were reported from 2 trials. The mean pest severity on stems in the untreated plots was 19.7 % (range: 6 % to 33.3 %). The pest incidence on stems in the untreated plots, reported from 1 trial, was 79.2 % . This represents acceptable to good conditions for product testing. The results are considered valid.

Table 3.2.3.18-6: Efficacy of ADM.3500.F.2.B against Alternaria brassicae on pods of winter oilseed rape compared to the zonal reference product(s)

Crop	Pathogen (EPPO-code)	EPPO zone	Efficacy on *Alternaria brassicae*									
			N° of tri-als	Disease level in UTC (%)		ADM.3500.F.2.B [0.7 L/ha]			Zonal reference products			
				Mean	Range	Mean	Median	Range	Ref.Prod. | rate [L/ha]	Mean	Median	Range
Pest severity on stems												
BRSNW	ALTEBA	Maritime	2	19.7	6-33.3	70.8	.	49-93	Joao | 0.7	68.8	.	56-81
Pest incidence on stems												
BRSNW	ALTEBA	Maritime	1	72.0	.	79.2	.	.	Joao | 0.7	65.3	.	.

Based on the results of 2 trials, the mean reduction of pest severity on pods by ADM.3500.F.2.B applied at the rate of 0.7 L/ha was 70.8 % and the mean reduction of pest incidence (1 result) was 79.2 %. The results clearly demonstrate the good performance of ADM.3500.F.2.B against *Alternaria brassicae* infestions of pods (table 3.2.3.18-6). The performance is comparable to the performance provided by the zonal reference product Joao (200 g/ha prothioconazole – mean reduction of pest severity: 68.8 % – mean reduction of pest incidence: 65.3 %).

Results for the control of *Alternaria brassicae* on oilseed rape are available from EPPO zones Maritime, North-East, and South-East. As demonstrated by the results presented in table 3.2.3.18-4, there are no substantial differences between the climatic zones.

In 7 efficacy trials with a relevant infestation of *Alternaria brassicae* yield was taken. The results are presented in table 3.2.3.18-7 (quantity of yield) and table 3.2.3.18-8 (quality of yield).

Table 3.2.3.18-7: Yield results of harvested efficacy trials (relative to UTC (=100))

EPPO zone	Crop	Quantity of yield						
		N° of trials	Yield in UTC (dt/ha)		ADM.3500.F.2.B [0.7 L/ha]		Zonal reference product	
			Mean	Range	Mean	Range	Mean	Range
Maritime	BRSNW	2	31.5	26.8-36.2	118.2	114-122	105.1	101-110
North-East	BRSNW	4	31.2	24.1-40.7	110.3	107-119	110.3	106-119
South-East	BRSNW	1	22.2	.	106.7	.	106.6	.
Across EPPO zones	**BRSNW**	**7**	**30.0**	**22.2-40.7**	**112**	**107-122**	**108.3**	**101-119**

The results clearly demonstrate the benefits provided by the control of *Alternaria brassicae* with ADM.3500.F.2.B. Compared to the untreated control the mean yield increase was 12 %. In 3 of 7 trials the yield of the plots treated with ADM.3500.F.2.B at 0.7 L/ha was significantly increased. There were no differences between ADM.3500.F.2.B and the zonal reference products. There are no differences between EPPO zones. There are no indications that quality parameters of yield are affected adversely. The thousand grain weight is increased for about 3 %.

Table 3.2.3.18-8: Quality of yield in harvested efficacy trials (relative to UTC (=100))

EPPO zone		TGW ADM.3500.F.2.B 0.7 L/ha	TGW Zonal Reference Product(s)	OC ADM.3500.F.2.B 0.7 L/ha	OC Zonal Reference Product(s)	PRC ADM.3500.F.2.B 0.7 L/ha	PRC Zonal Reference Product(s)
Maritime	Mean	96.9	99.1	101.6	99.8	97.9	100.9
	Range	93-101	97-101				
	Nº	2	2	1	1	1	1
N-East	Mean	103.1	102.7	100.6	101.1		
	Range	102-105	100-104	99-102	100-102		
	Nº	4	4	4	4		
S-East	Mean	112.1	111.7	100.0	100.1		
	Range						
	Nº	1	1	1	1		
Across zones	**Mean**	**102.6**	**103.0**	**100.7**	**100.7**	**97.9**	**100.9**
	Range	**93-112**	**97-112**	**99-102**	**100-102**		
	Nº	**7**	**7**	**6**	**6**	**1**	**1**

TGW = Thousand grain weight; OC = Oil content; PRC = Protein content

It can be concluded that ADM.3500.F.2.B is suitable for the control of *Alternaria brassicae* on oilseed rape.

zRMS comments:

3.2.3.18 – ALTEBA in winter and spring oilseed rape:

1.Efficacy assessment:
The efficacy based on severity on pods averaged across the zones is **82.7%** and **78.2%,** test and standard product respectively, according to zRMS, *i.e.* after exclusion of 3 trials with 2.1-2.8% UNCK infestation ~~(UK(1), FR(2))~~ (UK, FR, LV) (resulting in 1.3 and 2.0% efficacy estimate reduction respectively, compared to the data set used by the applicant (Table 3.2.3.18-4). The efficacy estimate based on disease incidence on pods is correct - the level of infestation in the UNCK makes assessment reliable (ibid.). The ADM.03500.F.2.B performed the level of standards except for the NE EPPO zone where the efficacy of the test item was inferior to that of standards.

2.Trial count:
In none of the EPPO zones considered is the number of trials sufficiently high for an independent authorization, *i.e.* authorization based exclusively on trials relevant to the respective zone. The cMSs in the Maritime and the SE EPPO zones are nevertheless encouraged to consider their own decisions concerning the use against ALTEBA, based on the joint number of trials from all 3 zones. The across-zones n=7, even after exclusion of invalid trials (those with UNCK infestation 2.1, 2.2 and 2.8%, UK, LV, FR respectively).
It is noted, that one of the low-infested trials is the LV19FEBRSNN500A, KCP 6.2-404. This leaves the NE zone with 3 valid trials instead of 4. Hence, even the otherwise acceptable adoption of the single SK trial as supportive data from the neighbouring MS **does not** make the authorization of the use in the NE zone possible.

3.2.3.19 Summary and conclusion

373 trials were carried out in the central European regulation zone to evaluate the efficacy of ADM.3500.F.2.B against the target fungal pathogens. They were complemented by 8 trials (1 in oats and 7 in oilseed rape) in the Northern and Southern regulation zones to support the results of the control of *Puccinia coranata* and *Alternaria brassicae*.

The results achieved from 239 trials demonstrate that the intended target dose rates of ADM.3500.F.2.B (0.8 L/ha in cereals crops and 0.7 L/ha in oilseed rape) are required for a comprehensive successful protection of the target crops. At the target dose rates, ADM.3500.F.2.B achieves very good efficiency for the control of the target fungal diseases on winter cereal crops and oilseed rape. Compared to the untreated check, it reduces the level of infestations significantly and is comparable to the reference products Proline and Proline 275, and to further authorised reference products used in the trials. At presence of the target diseases, applications of ADM.3500.F.2.B have a clearly positive effect on the yield of cereals crops and oilseed rape. The product complies with the Uniform Principles.

zRMS final comments on efficacy of the ADM.03500.F.2.B:

3.2.3.1 - SEPTTR in wheat:
The use in wheat against *Zymoseptoria tritici* can be authorised.

3.2.3.2 - PYRNTR in wheat:
The use in wheat against *Pyrenophora tritici-repentis* can be authorised.

3.2.3.3 – PUCCST in wheat:
The use in wheat against *Puccinia striiformis* can be authorised.

3.2.3.4 – PUCCRT / PUCCRE in wheat:
The use in wheat against *Puccinia triticina* / *Puccinia recondita* f.sp. *triticina* can be authorised.

3.2.3.5 – ERYSGT / ERYSGT in wheat:
The use in wheat against *Erysiphe graminis* / *Erysiphe graminis* f.sp. *tritici* can be authorised.

3.2.3.6 – FUSASP in wheat:
The decision on authorization of the use in the Maritime and the SE zones is kindly left to the respective cMSs. Poland as zRMS and the only Central Zone cMS in the NE EPPO zone, may accept the use based on supporting data from the CZ, DE and SK trials.

3.2.3.7 – RHYNSE in winter and spring barley:
The use in winter and spring barley against *Rhynchosporium secalis* can be authorised.

3.2.3.8 – PYRNTE in winter and spring barley:
The use in winter and spring barley against *Pyrenophora teres* can be authorised.

3.2.3.9 - RAMUCC in winter and spring barley:
The use is supported by sufficient number of trials for the Maritime zone. For the SE zone the single-application assessments are unavailable, therefore the cMSs in that zone are kindly advised to consider individually the relevance of the double-application experimetal design to the single application GAP claim. No data has been presented for the NE EPPO zone and there the use cannot be authorized.

3.2.3.10 - PUCCHD in winter and spring barley:
Since the complete set of trials for the control of *Puccinia hordei* in barley includes 6 trials in spring form of the crop, and one of them (CZ20FEHORVS255A) reports the efficacy following single application, to the opinion of zRMS these data are sufficient for authorization of the use in winter and spring barley in the Maritime and in the NE EPPO zones. Contrastingly, it is up to the cMSs in the SE zone whether they will consider the scarce data from HU as sufficient for authorization in their countries.

3.2.3.11 – RHYNSE in winter rye:
Only two EPPO zones are represented. The number of trials is sufficient to allow for authorization of the use in the Maritime zone, based on the zonal data, and in the NE zone, based on the proper zonal data plus the supporting trials from the neighbouring CZ and DE.

3.2.3.12 – PUCCRE / PUCCRR in winter rye:
Only two EPPO zones are represented. The number of trials is sufficient to allow for authorization of the use in the Maritime and the NE EPPO zones, based on the zonal data alone, in each case.

3.2.3.13 – SEPTTR in winter and spring triticale:
The data set does not include trials in the spring form of the crop.
The number of submited trials allows for the authorization in the Maritime and the NE zones, whereas the SE zone is represented by 5 trials only, all of them carried out in RO. The remaining cMSs in that zone are kindly advised to decide whether the data set smaller than required and focused on one region represents conditions of the entire EPPO zone. To the opinion of zRMS, however, the situation is acceptable, considered the acknowledged status of the active ingradient of the ADM.03500.F.2.B.

3.2.3.14 – PUCCRE in winter and spring triticale:
The use may be authorized in the NE EPPO zone, but only single trials show efficacy following single application in each of the Maritime and the SE zones. The authorization decision in these zones is therefore left in the hands of the concerned MSs, the more that the SE zone data set is again restricted to a single country (RO).

3.2.3.15 – PUCCST in triticale:
No trials in Triticale have been submitted to support this use directly. However, extrapolation for this target pathogen is possible based on data from 34 trials in wheat.

3.2.3.16 – PUCCCO in oats:
The data set represents practically the Maritime zone alone. According to the GAP table the authorization is sought in that zone only, and to the opinion of zRMS it may be granted.

3.2.3.17 – SCLESC in winter and spring oilseed rape:
The number of data points is sufficient for the NE and the SE EPPO zones, whereas it is too low in the Maritime zone (2 trials after exclusion of 3). To the opinion of zRMS the use should be authorized in the NE and the SE zones only. However, cMSs in the Maritime EPPO zone are kindly encouraged to consider individually the supportive value of the North and the South regulatory zones` data for authorization of the use in the part of the Central zone that is located in the Maritime EPPO zone.

3.2.3.18 – ALTEBA in winter and spring oilseed rape:
To the opinion of zRMS the use should not be authorized. In none of the EPPO zones considered is the number of trials sufficiently high for authorization based exclusively on trials relevant to the respective zone. Nevertheless, the cMSs in the Central zone are kindly encouraged to take their own decisions concerning the use against ALTEBA, if authorization based on the mutual use of suporting data from their neighbouring countries is, in their view, acceptable.

No phytotoxicity symptoms have been observed in any crops in the efficacy trials. See the respective chapter Phytotoxicity to host crop (KCP 6.4.1) for details.
In none of the efficacy trials the yield or its quality parameters were affected negatively by the application of the ADM.03500.F.2.B.

3.3 Information on the occurrence or possible occurrence of the development of resistance (KCP 6.3) (lektura zakończona 12-lipca na Baseline sensitivity for target pathogens)

3.3.1 Active Ingredient(s)

The fungicidal active ingredient prothioconazole belongs to the chemical group of triazoles, Fungi species intended to be controlled by ADM.3500.F.2.B are *Pyrenophora tritici repentis*, *Blumeria graminis*, and *Fusarium* species on wheat, *Puccinia recondita* on wheat, rye, and triticale, *Puccinia striiformis and Zymoseptoria tritici* on wheat and triticale, *Rhynchosporium secalis* on barley and rye, *Pyrenophora teres*, *Puccinia hordei*, and *Ramularia collo-sygnis* on barley, *Puccinia coronata* on oats, and *Sclerotinia sclerotiorum* and *Alternaria brassicae* on oilseed rape.

Mode of Action
Prothioconazole belongs to a group of active ingredients which are now commonly characterised as SBI-class I: **De****M**ethylation-**I**nhibitors (Abbreviation: **DMI**'s), a subgroup of the **S**terol **B**iosynthesis **I**nhibitors (**SBI**'s), inhibiting the ergosterol synthesis by the inhibition of the steroid reduction.
Due to their mode of action, in the **FRAC** (**F**ungicide **R**esistance **A**ction **C**ommittee) classification[4], prothioconazole is classified as follows:

> 'FRAC Code 3' – MOA Code G1: (Target site: C^{14}-demethylase in sterol biosynthesis);
> Group name: DMI-fungicides (DeMethylation Inhibitors) (SBI: Class I);
> Chemical group: Triazolinthiones.

Besides triazolinthiones, numerous triazoles, imidazoles, pyridines, and pyrimidines all have been shown to act as demethylation inhibitors. Typically, DMI's have a broad spectrum of activity against a range of economically important pathogens on arable crops, top fruit, vines, plantation crops, etc.

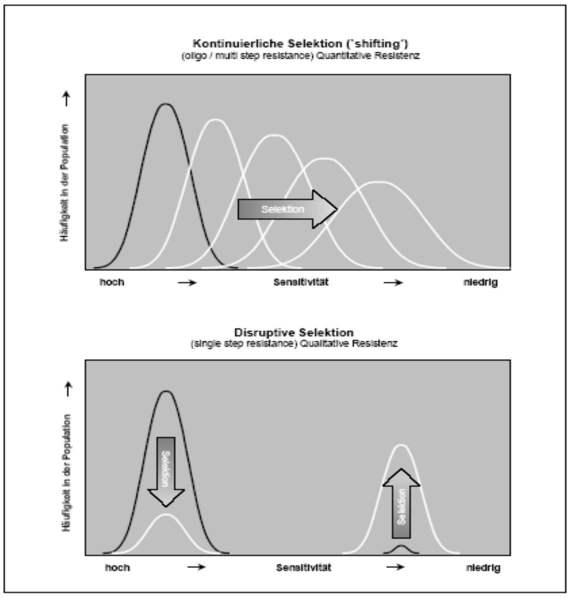
3.3.2 Information on resistance of fungal diseases

For each group of fungicides, a principle risk for the development of resistance is existing. However, the potential for resistance development is different between the fungicide groups. The potential depends on many parameters such as mode of action, frequency of applications and the biology of the pathogen. While some pathogens develop resistance to a certain active substance already shortly after market introduction, for other pathogen/active substance combinations no resistance is recorded up to now.

Generally, fungicide resistance is divided into two types: the qualitative and the quantitative resistance (figure 3-1). Quantitative resistance means only a certain adaptation to the active substance by the pathogen. Pathogens as *Septoria* can thereby only adapt gradually by accumulating several genetic modifications within each individual. This exclusively leads to a stepwise and slow-going resistance evolution. A characteristic of this form of adaptation is also an increasing diversity in sensitivity of the isolates within the whole population during the progress of resistance evolution, because differently adapted isolates result from an individual accumulation of resistance mutations. And: After a period of resistance evolution (multi-/oligo-step resistance or 'shifting'), it is often observed that at an achieved compound-specific

[4] FRAC Fungicide List 2020, available in the internet in Nov. 2020 under http://www.frac.info

Figure 3-1: Scheme of the population dynamic by quantitative and qualitative resistance[5]



adaptation level, the pathogen populations stay - with some up and downs - relatively stable within a sideward-trend channel, and do not continuously increase in their resistance level. This can be attributed to the biology of the pathogen due to its sexual recombination (formation of ascospores) in connection with the oligo-/polygenic biocontrol of the SBI-resistance formation in the fungus[6]. The control of the pathogen is still possible. However, higher rates are required.
In contrary to quantitative resistance, qualitative resistance means that even with high rates of the active substance no acceptable control of the pathogen is possible. This happens for example in case of a mutation at the site of action preventing the optimal binding of the substance.

Evidence of resistance
Resistance to DMIs is known in various fungal species in various crops. In cereal crops most important are resistances ~~to~~ in *Blumeria graminis*, *Zymoseptoria tritici*, and to a lesser extend ~~to~~ in *Rhynchosporium secalis*. The type of resistance of DMI fungicides, for example of *Septoria sp.* or *Blumeria graminis* is the 'quantitative' - type (shifting). It can be expected that under most situations of commercial production of cereals, populations of these fungal pathogens show decreased sensitivity to prothioconazole and other DMIs. However, the current situation is stable. By FRAC **the fungicide risk for resistance development** is considered as **medium** for DMIs.

Mechanism of resistance
The primary mechanism of resistance is the accumulation of several independent mutations in the target site incl. mutations in cyp51 (erg 11) gene, e.g. V136A, Y137F, A379G, I381V; cyp51 promotor; ABC transporters and others. Each individual mutation typically causes only a small reduction in sensitivity that does not cause a large enough reduction in sensitivity to impact efficacy under field conditions until multiple mutations accumulate in an isolate.

Cross resistance
It is likely that cross resistance is present between DMI fungicides effective against the same fungus. DMI fungicides are Sterol Biosynthesis Inhibitors (SBIs) but show no cross resistance to other SBI classes[7].

[5] Felsenstein, F.G.; Jaser, B.: Fungizidresistenz bei pilzlichen Getreidepathogenen und Wirksamkeit der vertikalen (qualitativen) Mehltauresistenz bei Weizen und Gerste – Situationsbericht 2007; available in the internet in Nov. 2020 under http://www.epilogic.de
[6] Felsenstein, F.G., Jaser,B.: RESEARCH REPORT: Sensitivity of *Septoria tritici* in different regions of Europe towards prochloraz, tebuconazole, difenoconazole and prothioconazole 2018, EpiLogic GmbH Agrobiol. Research and Consulting
[7] FRAC Code List 2020; available on the internet in Nov. 2020 under http://www.frac.info

Baseline sensitivity of target pathogens

Powdery Mildew (*Blumeria graminis* / *Erysiphe graminis*)
The wide spread and intensive use of DMI products since end of the 1970s lead to a quantitative adaptation of the sensitivity of *Blumeria graminis* on wheat and barley accompanied by partly clearly reduced levels of control. Since the middle of the 1990s monitoring data[8] show a relatively little dynamic of pathogen sensitivity only, indicating that the situation of sensitivity of *Blumeria graminis* against DMI products is stable to a large degree. The stabilised mean resistance factors (MRFs) can be different for different DMI products. Based on the authors estimation, in wheat they are ranging from 3-7 to 30-70. MRFs of prothioconazole are in the range of 3-7. In barley they are ranging from 8-15 to 10-250. MRFs of prothioconazole are in the range of 8-15.
According to the SBI working group of FRAC[9], sensitivity data presented for 2016 to 2019 in wheat confirmed that the situation was overall stable within the range of variability detected during the last 20 years. In 2019, DMI field performance was good. Monitoring was carried out in Czech Republic, France, Germany, Poland, and United Kingdom. Differences in the sensitivity are significantly a.i. and regionally dependent. Higher resistance factors were observed only for particular DMIs especially in France, Germany and UK, but also to a lesser extend in Belgium. In barley, monitoring was carried out in Czech Republic, Denmark (2016), France, Germany, Latvia, Sweden (2016), Ukraine, and United Kingdom. The sensitivity of the populations stayed in the range observed for more than 15 years.

Ramularia leaf spot (*Ramularia collo-cygni*)
According to the SBI working group of FRAC, a Monitoring of sensitivity of *Ramularia collo-cygni* is currently carried out in Austria, Belgium, Croatia, Denmark, France, Germany, Ireland, Italy, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, and United Kingdom. Since 2015 clearly decreased sensitivity have been observed in certain isolates. Extensive monitoring in Germany showed especially on trial-sites in Southern Germany for the first-time occurrence of strains with strongly decreased dose-response in lab assays, leading to moderate to high resistance factors. Relevant cyp51-mutations explaining the effects have been identified.
First data from 2016 showed high frequency of resistant strains in Denmark, Ireland, and United Kingdom, moderate frequency in Estonia, low to moderate frequency in Sweden, and no resistant strains were detected in Finland.
In 2017 and 2018, in many European countries isolates were detected showing significant loss of sensitivity. Field performance was regionally significantly affected, due to the low disease pressure hard to evaluate in 2018. Relevant cyp51-mutations explaining the effects have been identified (I325T, I328L, Y403C/Y405H).
In 2019 the frequency of DMI resistance of *Ramularia collo-cygni* is described as follows:
• no isolates/samples were detected in Spain and Italy.
• no to low frequencies were observes in Slovenia and Croatia.
• low frequencies were detected in Switzerland and Slovakia.
• in Austria, low to moderate frequencies were observed.
• moderate to high frequencies were observed in Belgium, Germany, and Sweden.
• high frequencies were detected in Ireland, United Kingdom, and France.

Septoria Leaf Blotch (*Mycosphaerella graminicola* / *Zymoseptoria tritici* / *Septoria tritici*)
According to the FRAC SBI working group, in 2019 at a moderate disease pressure, field performance of DMIs was good when used according to the manufacturers and FRAC recommendations. No general field resistance has been reported. Based on the monitoring carried out in Austria, Belgium, Croatia, Czech Republic, Denmark, Estonia, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Poland, Russia, Slovenia, Spain, Sweden, Switzerland, Ukraine, and United Kingdom, after the slight increase in the frequency of less sensitive isolates from 2002 to 2004, the situation had stabilised between

[8] Felsenstein, F.G.; Jaser, B.: Fungizidresistenz bei pilzlichen Getreidepathogenen und Wirksamkeit der vertikalen (qualitativen) Mehltauresistenz bei Weizen und Gerste – Situationsbericht 2007; available on the internet in Nov. 2020 under http://www.epilogic.de
[9] FRAC SBI Working Group: Minutes from Annual Meeting on January 24th, 2020, available on the internet in Nov. 2020 under http://www.frac.info

2005 and 2008. In 2009 a trend to slightly higher EC_{50} values was observed in important cereal growing areas (France, Germany, Ireland, United Kingdom), this trend has slowed down in 2010 to 2012 and was stable in 2013. 2014 sensitivity was in the same range as 2011. In 2015 depending on the individual active ingredient and regions slight shifts of sensitivity of populations have been observed. Highest EC_{50} values were observed in areas of elevated disease pressure and sub-optimal use of azoles in spray programs (e.g. reduction of rates in comparison to the manufacturer's recommended rate and inappropriate use of effective mix-partners). In 2016 and also in 2017 the sensitivity of the populations was overall stable on a European level with regional differences also based on different disease epidemics. In regions with lower sensitivity in 2015 the sensitivity of the populations was stable and, in some areas, even partially increased. In 2018 the sensitivity of the populations was overall stable on the European level. In 2019, the sensitivity of the populations was overall stable on European level with EC_{50} sensitivity values slightly higher compared to 2018 in some geographies but overall in the range of previous years.

A resistance monitoring study was carried out by INRA (France)[10] in 2006 and leaf-samples with *Zymoseptoria tritici* infections were collected by Makhteshim Agan and its affiliates like FCS (now ADAMA Agricultural Solutions Ltd.) in wheat growing areas in France, Germany and Denmark.

Table 3-1: Phenotypes and genotypes of Zymoseptoria tritici strains resistant to DMI

Fungicides	EC50 in mg/l TriS	Resistance levels in Tri R strains [a] TriLR					TriMR	
		R1	R2	R3	R4	R5	R6	R7
Pyrifénox	0,001	-/+	+	+/++	++	++	+++	+++
Triflumizole	0,004	-	+/++	-	++	++	++++	++++
Prochloraze	0,002	-/+	+	+/++	+	++	+	-
Triadiménol	0,6	++	-/+	++	+	+	++	++
Tébuconazole	0,01	+	+	++	++	-	+++	+++
Fluquinconazole	0,003	-	-/+	-	+	++	++	++
Flusilazole	0,006	+	+	++	++	++	+++	+++
Metconazole	0,002	+	+	+	+	+	++	++
Epoxiconazole	0,002	+	+	++	+	+	++	++
Prothioconazole	0,04	**?**	-	+	+	+	+	+
Genotype[b] (*Cyp51*)	I	I	I	I	II	I et II	I	II

[a]. Resistance level : CI_{50} TriR/CI_{50} TriS : Scale – (between 0,3 and 3) ; + (between 3 and 10), ++ (between 10 and 30), +++ (between 30 and 100), ++++ (superior to 100).
[b] Type I : no deletion ; Type II : deletion (ΔY459/G460).

The study results indicate that, regarding DMIs, up to 7 biotypes of *Zymoseptoria tritici* are present determining low to high resistance levels. More details are presented in table 3-1.

According to Heick et al. 2020[11], epoxiconazole and prothioconazole were the most widely used active ingredients in the last ten years. The goal of this investigation was to survey the resistance development of Z. tritici towards these two compounds. In total, EC_{50} values were determined for 3472 *Z. tritici* isolates from 2012 to 2019. Also, the field performance of the most used DMI compounds was tested in field trials. EC_{50} values of epoxiconazole and prothioconazole increased in the testing period. A significant shift was observed for epoxiconazole in 2016 and again 2018 with average EC_{50} values >1 ppm in Denmark. In Sweden, average EC_{50} values for epoxiconazole reached 1 ppm in 2017. The sensitivity towards prothioconazole remained stable at a high level. Following the decline in sensitivity in vitro, field efficacies of epoxiconazole and prothioconazole decreased in Denmark and Sweden. Currently, the Danish and Swedish *Z. tritici* populations are highly adapted to epoxiconazole and prothioconazole.

[10] Leroux P., Walker A.S., Albertini C. and Gredt M.: Resistance to fungicides in European populations of *Septoria tritici*, the causal agent of wheat leaf blotch. Analysis of populations sent by MAKHTESHIM AGAN in 2006; *INRA, Unité de Phytopharmacie et Médiateurs Chimiques 78026 Versailles Cedex, 2006; not published yet*
[11] Heick T.M., Matzen N. & Jørgensen L.N. Reduced field efficacy and sensitivity of demethylation inhibitors in the Danish and Swedish Zymoseptoria tritici populations. Eur. J. Plant Pathol. 157, 625–636

In a long-term study, carried out by Epilogic[12,13,14] and initiated by ADAMA, respectively its predecessor companies, the sensitivity of the fungal pathogen *Zymoseptoria tritici* (*Mycosphaerella graminicola*) towards fungicidal active azole compounds is analysed on an international scale with field samples from different European wheat growing areas. The main objectives of the research program are to obtain a current survey on the sensitivity of the pathogen towards the compounds across different European countries, to study the sensitivity structure of the pathogen populations for estimating potential resistance risks and to monitor population dynamics according adaptation and resistance evolution. In table 3-2 the resistance situation for the DMI active ingredient prothioconazole in the different European countries is demonstrated for the years 2016 to 2018.

Overall, the results show a quite stable resistance situation over the three years. The range of found resistance factors were 1.1 to 29 in 2017, 2 to 50 in 2017, and 1.1 to 35 in 2018. High diversity factors on single locations indicate that highly susceptible and DMI resistant strains of *Zymoseptoria tritici* are existing at the same location, predominantly in Southern European countries.

Table 3-2: MRFs and MDFs of Zymoseptoria tritici isolates against prothioconazole in different European countries in 2016 to 2018

Country	**2016**					**2017**					**2018**				
	NOL	**RF_{50}**		***DF_{50}***		**NOL**	**RF_{50}**		***DF_{50}***		**NOL**	**RF_{50}**		***DF_{50}***	
		Mean	**Range**	***Mean***	***Range***		**Mean**	**Range**	***Mean***	***Range***		**Mean**	**Range**	***Mean***	***Range***
UK	9	22	18-28	*2.0*	*1-4.6*	12	34	23-45	*2.1*	*1.2-3.4*	9	28	25-32	*2.1*	*1.7-2.9*
NL	2	19	18-20	*1.7*	*1.6-1.7*	2	25	22-28	*3.1*	*1.5-4.6*	3	26	25-27	*1.9*	*1.2-3*
BE	2	19	19-19	*1.4*	*1-1.7*						2	31	28-35	*2.8*	*1.7-3.9*
FR	9	18	6-25	*3.6*	*1.6-17*	5	44	37-50	*2.0*	*1.4-2.8*	7	26	22-29	*2.8*	*1.8-4.4*
DK	1	14		*4.2*		2	38	28-49	*1.8*	*1.5-2*	2	28	26-29	*2.0*	*2-2*
SE						2	19	18-20	*3.1*	*3-3.3*					
GE	6	20	14-29	*1.9*	*1.1-3*	6	31	22-39	*3.1*	*1.1-6.3*	4	26	23-30	*2.1*	*1.2-2.7*
LT											2	17	16-19	*6.3*	*5.7-6.9*
LV	1	18		*1.7*		2	6	5-8	*6.9*	*3.9-10*					
PL						4	23	8-41	*6.0*	*1.4-9.9*					
CZ	3	14	9-17	*1.4*	*1.2-1.9*	1	36		*1.2*		5	21	8-34	*3.3*	*1-11.2*
AT	1	18		*1.0*		1	23		*2.4*		1	22		*1.6*	
ES	2	21	19-23	*2.6*	*1.9-3.4*	2	15	3-26	*6.9*	*1.7-12.1*	3	15	4-30	*14.5*	*3.1-23.9*
IT	4	6	1.1-15	*8.7*	*1.1-20.8*	3	4	2-8	*8.6*	*2.9-16.5*	5	9	1.1-27	*5.0*	*2-10.2*
	40	**18**	**1.1-29**	***3.0***	***1.1-20.8***	**42**	**28**	**2-50**	***3.6***	***1.1-16.5***	**43**	**23**	**1.1-35**	***3.8***	***1-23.9***

RF_{50} = Resistance Factor based on EC_{50} values; DF_{50} = Diversity Factor based on EC_{50} values (diversity factor = quotient of highest and lowest EC_{50} values of analysed isolates per location); NOL = Number Of Locations

Tan spot (*Pyrenophora tritici-repentis*, syn. *Drechslera tritici-repentis*)
According to the FRAC SBI working group, monitoring data from 2019 in Finland, Lithuania, and United Kingdom showed a narrow range of sensitivity in line with results from previous years.

Wheat brown rust (*Puccinia triticina* / *Puccinia recondita f. sp. tritici*)
According to the FRAC SBI working group, in 2019, the good field performance of DMIs against rust has been maintained. The monitoring in 2019 which has been carried out in Czech Republic, France, Germany,

[12] Felsenstein, F.G.; Jaser, B.: Sensitivity of *Septoria tritici* in different regions of Europe towards prochloraz, tebuconazole, difenoconazole, propiconazole, and prothioconazole 2016 – Research Report, EpiLogic GmbH Agrobiol. Research and Consulting
[13] Felsenstein, F.G.; Jaser, B.: Sensitivity of *Septoria tritici* in different regions of Europe towards prochloraz, tebuconazole, difenoconazole and prothioconazole 2017 – Research Report, EpiLogic GmbH Agrobiol. Research and Consulting
[14] Felsenstein, F.G.; Jaser, B.: Sensitivity of *Septoria tritici* in different regions of Europe towards prochloraz, tebuconazole, difenoconazole and prothioconazole 2018 – Research Report, EpiLogic GmbH Agrobiol. Research and Consulting

Poland, and United Kingdom. Sensitivity data from 2019 for wheat brown rust showed that sensitivities were in the range of those of the last 20 years.

Yellow rust (*Puccinia striiformis*)
According to the FRAC SBI working group, monitoring was carried out in Denmark, Germany, Latvia, Sweden and United Kingdom.
The first monitoring in 2015 showed high sensitivity and low diversity, and from 2016 to 2019 a stable situation was reported.

Scald (*Rhynchosporium secalis*)
According to the FRAC SBI working group, Field performance of DMIs was good. A monitoring was carried out in Belgium, France, Germany, Ireland, Poland and United Kingdom showing a stable situation. The sensitivity of the populations stayed in the range observed in the previous 15 years.

Net blotch (*Pyrenophora teres* /*Drechslera teres*)
According to the FRAC SBI working group, monitoring was carried out in Belgium, Czech Republic, Denmark, France, Germany, Hungary, Ireland and United Kingdom. The monitoring of the last 20 years showed a certain level of fluctuations of the sensitivity level in the regions over the years. In 2018, the situation stabilized again in all countries including France and Germany, thus being comparable to the long-term monitoring results. In 2019, like 2017 lower sensitivities have been frequently detected in major French regions and in a single location in North-Eastern Germany. In the other European regions monitored sensitivity ranges were stable.

Barley brown rust (*Puccinia hordei*)
According to the FRAC SBI working group, monitoring was carried out in 2014, 2018 and 2019 in Denmark, France, Germany, Sweden, and United Kingdom. In this five-year interval, a very stable situation with a narrow range of sensitivity was observed.

3.3.3 Determination of Inherent Risk for Resistance of the Target Harmful Organism

According to the FRAC code-list 2020[15], DMI-fungicides are generally considered as a medium risk group.

Based on the available knowledge the Fungicide Resistance Action Committee has published a classification of important pathogens as related to their risk to develop resistance to fungicides (high risk, medium risk, and low risk)[16]. The risks for the target pathogens are determined as follows:

- **Low:** *Puccinia species, Rhynchosporium secalis, Fusarium species, Sclerotinia sclerotiorum*
- **Medium:** *Zymoseptoria tritici, Pyrenophora teres, Pyrenophora tritici repentis*, *Alternaria brassicae*
- **High:** *Blumeria graminis, Ramularia collo-cygni*

Pathogens considered medium risk species are regarded as posing a lower risk because resistance is not a major problem or has been slow to develop. In some cases, this is due to the pattern of product use. Cases of specific isolates being ~~classed~~ classified as resistant may be known in some instances, but in commercial practice resistance has not created major disease control problems.

In a risk estimation matrix diagram (table 3-3) the potential risk for the development of resistance is estimated in dependency of the chemical class and the pathogen. Based on this table, the combined (pathogen x product) inherent resistance risk of the target pathogens is considered low (1-2) for *Puccinia species, Rhynchosporium secalis*, *Fusarium species*, and *Sclerotinia sclerotiorum*, medium (2-4) *for Zymoseptoria*

[15] FRAC Code List 2020, available on the internet in Nov. 2020 under http://www.frac.info
[16] FRAC Pathogen List 2019, available on the internet in Nov. 2020 under http://www.frac.info

tritici, *Pyrenophora teres*, *Pyrenophora tritici repentis*, and *Alternaria brassicae*, and medium to high for *Blumeria graminis and Ramularia collo-cygni* (table 3-3).

Table 3-3: Combined resistance risk diagram based on inherent fungicide risk and inherent pathogen risk.

Fungicide Classes *	**Fungicide Risk**	**Combined Risk (fungicide risk x pathogen risk)**		
benzimidazoles dicarboximides phenylamides Qol fungicides **	**high =3**	3	6	9
carboxamides **SBI fungicides** anilinopyrimidines phenylpyrroles phosphorothiolates	**medium = 2**	**2**	**4**	**6**
multi side fungicides: (e.g.dithi-ocarbamates Copper, Sulphur) MBI-R inhibitors SAR inducers	**low 1*)**	1	2	3
Pathogen risk		**low = 1*)**	**medium = 2**	**high = 3**
Pathogen groups *		***Puccinia species Fusarium species. Rhynchosporium secalis, Sclerotinia sclerotiorum***	***Zymoseptoria septoria tritici Pyrenophora tritici repentis Pyrenophora teres, Alternaria brassicae***	***Blumeria graminis Ramularia collo-cygni***

*) Fungicide and pathogen risks are classified from 1 [low] to 3 [high]; Combined risk is the product of both

3.3.4 Determination of Agronomic Risk for Resistance

Agronomical factors reducing the risk of a development of resistance are:

- *No repeated applications in the same crop per season.*
- *Applications in mixture with other (different mode of action) active substances.*
- *Sequential applications with other active substances (different mode of action).*
- *High level of efficacy on the harmful target organisms.*
- *Protective use of the product.*
- *Chemical diversity.*

Agronomical factors increasing the risk of a development of resistance are:

- *Repeated applications (repeated exposure of successive generations of a target organism to the product).*
- *Sole active ingredient (= sole mode of action).*
- *Sub-lethal concentrations of the product.*
- *Eradicative use of the fungicide.*

ADM.3500.F.2.B provides a high level of efficacy on the target pathogens.
It contains only the active ingredient prothioconazole, thus, it provides a sole mode of action.
ADM.3500.F.2.B provides protective and curative action. Thus, based on the characteristics of the active ingredient, ADM.3500.F.2.B could also be used curatively.

For a sufficient control of the pathogens, multiple applications (normally 2) are required as a rule. Since the number of applications of ADM.3500.F.2.B is restricted to 1, further applications with different products should be performed normally. The use of products providing a different mode of action clearly reduce the risk for resistance development.

Based on these facts the agronomical risk factors for the development of pathogen resistance against ADM.3500.F.2.B could be considered medium to high if ADM.3500.F.2.B would be used unrestrictedly.

3.3.5 Combined Agronomic and Inherent Risk for Resistance

Based on the agronomic and the inherent risk for the development of resistance of the target organisms to ADM.3500.F.2.B it can be concluded that a strategy for a resistance management for ADM.3500.F.2.B should be established.

3.3.6 Resistance Management for product

As guidelines for the resistance management for ~~MCW 2075~~ ADM.3500.F.2.B the long standing and well-tried recommendations of the FRAC for the use of SBI fungicides should be followed:

General recommendations for use

The SBI fungicides represent one of the most potent classes of fungicides available to the grower for the control of many economically important pathogens. It is in the best interest of all those involved in recommending and using these fungicides that they are utilised in such a way that their effectiveness is maintained.

The summaries and recommendations included in this report are based upon data generated by members of the FRAC-SBI Working Group and upon the work of non-industry collaborators. The working group concentrates its resources on the major crop/pathogen targets from the point of view of resistance risk. Inevitably many, still important, pathogens are omitted. To help in making recommendations for crops and pathogens not directly covered above, the following general recommendations can be made:

- *Repeated application of SBI fungicides alone should not be used on the same crop in one season against a high-risk pathogen in areas of high disease pressure for that particular pathogen.*
- *For crop/pathogen situations where repeated spray applications (e.g. orchard crops/powdery mildew) are made during the season, alternation (block sprays or in sequence) or mixtures with an effective non cross-resistant fungicide are recommended (see FRAC Code List).*
- *Where alternation or the use of mixtures is not feasible because of a lack of effective or compatible non cross-resistant partner fungicides, then input of SBI's should be reserved for critical parts of the season or crop growth stage.*
- *If the performance of SBIs should decline and sensitivity testing has confirmed the presence of less sensitive isolates, SBIs should only be used in mixture or alternation with effective non cross-resistant partner fungicides.*
- *The introduction of new classes of chemistry offers opportunities for more effective resistance management. The use of different modes of action should be maximized for the most effective resistance management strategies.*
- *Users must adhere to the manufacturers' recommendations. In many cases, reports of "resistance" have, on investigation, been attributed to cutting recommended use rates, or to poorly timed applications.*
- *Fungicide input is only one aspect of crop management. Fungicide use does not replace the need for resistant crop varieties, good agronomic practice, plant hygiene/sanitation, etc.*
- *Exclusive frequency measurements of single cyp51 mutations are not sufficient to describe the sensitivity situation towards DMIs but can help to better understand the background of sensitivity shifts.*

Recommendations for cereals (DMIs and amines)

- *The recommendations for the use of DMI and amine fungicides in mixture or alternation programmes with different mode of action fungicides remain unchanged. It needs to be emphasized that it is essential for resistance management purposes to follow strictly the manufacturer's and FRAC recommendations.*
- *Repeated application of DMI or amine fungicides alone should not be used on the same crop in one season against risky pathogens (e.g. cereal powdery mildews, barley net blotch, scald) in areas of high disease pressure for that particular pathogen.*
- *Reduced rates of DMIs can contribute to accelerate the shift to less sensitive populations. It is critical to use effective rates of DMIs in order to ensure robust disease control and effective resistance management. DMIs must provide effective disease control and be used at manufacturers recommended rates.*
- *When used in mixture recommended effective rates of the SBI must be maintained. Split and reduced rate programmes, using multiple repeated applications at dose rates below manufacturer's recommendations, provide continuous selection pressure and accelerate the development of resistant populations, and therefore must not be used.*
- *To ensure good performance and particularly resistance management in situations of even low disease pressure it is essential to adhere to dosages and spray timings as recommended by manufacturers. Curative applications should be avoided. Application timing has to be appropriate to all mix partners' characteristics. Mixing with a non-cross resistant fungicide at effective dose rates contributes to a more effective disease control and resistance management.*
- *The amine fungicides are effective non-cross-resistant partner fungicides for DMIs on cereals for the control of pathogens included in the label recommendation of each respective product.*

Taking the FRAC recommendation as a basis, the following measures should help to secure the efficacy of ADM.3500.F.2.B in the long term and on a high level:

- Non-chemical measures such as resistant crop varieties, plant hygiene, and good agricultural practice should be taken into consideration to reduce the infection pressure of the target pathogens.
- ADM.3500.F.2.B should only be recommended to be used with the full rate, even if used in mixtures.
- ADM.3500.F.2.B should be used predominantly for protective fungi control at the very beginning of an infection or re-infection. A predominantly curative or eradicative control of the pathogens should be avoided.
- Since the number of applications is limited to a maximum of 1 application per crop, for further applications only products should be used which provide a mode of action being non cross-resistant to DMIs.
- If the performance ADM.3500.F.2.B should decline and a sensitivity testing has confirmed the presence of less sensitive strains, ADM.3500.F.2.B should only be used in mixture or alternation with effective non cross-resistant partner fungicides.

The use pattern of ADM.3500.F.2.B following GAP is defined as follows:

- Spray treatment
- Rate(s): Small grain cereals: 0.8 L/ha
  Oilseed rape: 0.7 L/ha
- Timing: Small grain cereals: GS 30 to 65 (to GS 69 in wheat), at beginning of infestation or re-infestation.
  Oilseed rape: GS 50 to 73
- Maximum 1 application per crop and year.

Result: As a result, it can be stated that, if ADM.3500.F.2.B is used according to the use instructions and under consideration of the proposed anti-resistance modifiers, the resistance risk of the target pathogens to develop resistance to ADM.3500.F.2.B ~~is~~ may be considered low.

3.3.7 Summary and Conclusions

The risk for the development of resistance of target species was analysed following EPPO guideline PP1/213(4). The procedure follows the proposal of the German Authorities[17]. The evaluation for DMI fungicides shows low inherent risk for *Puccinia species*, *Rhynchosporium secalis, Fusarium species,* and *Sclerotinia sclerotiorum*, medium inherent risk for *Zymoseptoria tritici, Pyrenophora teres, Pyrenophora tritici repentis*, and *Alternaria brassicae*, and medium to high inherent risk for *Blumeria graminis and Ramularia collo-cygni*. The agronomic risk analysis shows ADM.3500.F.2.B to be of medium to high risk for the development of resistance if it would be used unrestrictedly.
Taking into consideration inherent and agronomical risk for resistance development and based on the long-term experience available, it could be concluded that measures for a resistance management in the indications concerned should be established for ADM.3500.F.2.B.
A resistance management for ADM.3500.F.2.B was defined following the recommendation of the Fungicide Resistance Action Committee. It is not foreseen to establish a separate monitoring program, since the SBI resistance situation of the major target pathogens is observed and published regularly.
If ADM.3500.F.2.B is used according to the use instructions and under consideration of the proposed anti-resistance modifiers, the resistance risk of the target pathogens to develop resistance to ADM.3500.F.2.B is considered low.

zRMS comments on the risk of resistance development:

The advantages and drawbacks of triazole compounds as a group are commonly recognized. Despite their very specific MoA, making them theoretically the actives of high resistance risk, this is not always the case and pathogens show wide collection of responses to triazoles, from the clear-cut qualitative resistance based on point mutations to the ‘wax and wane” sensitivity types that make efficacy ebb and flow in consecutive seasons, though rarely reaching the level that would prevent the control completely. These aspects of the SBI`s have been presented by the applicant extensively: for the main targets of the ADM.03500.F.2.B, across a number of growth seasons and in the background of historical data reaching as far as 20 years back from today. To the opinion of zRMS there is no need to amend this review by more recent data, while there is also no reason to anticipate, that the patterns of pathogen`s interactions with triazole fungicides would change dramatically in the forseeable future.

ADM.03500.F.2.B is a single-active product of the known substance of the SBI Class I group. Although the risk mitigating measures proposed by the applicant may seem unsophisticated, they stem from the broadly acknowledged rules governing biological evolution and they have been still effective, provided they are applied strictly by the end user. To the opinion of zRMS the set of recommendations proposed is sufficient to prevent excessive risk of selection for resistant biotypes in target pathogens of the ADM.03500.F.2.B. The recommendations should be transferred verbatim to national labels in the concerned Member States.

[17] Heimbach U., Kral G., Niemann P.: Implementation of resistance risk analysis of plant protection products in the German authorization procedure, Proceedings of the Brighton Crop Protection Conference - Pests and Diseases, pp 771-776, 2000

3.4 Adverse effects on treated crops (KCP 6.4)

Information on trials submitted (3.4: Adverse effects on treated crops)

No data are available from specific selectivity (pest free) trials, since the active ingredient of ADM.3500.F.2.B is already well known and used on the market of several European countries for several years, and in commercial use, no reports on negative effects of prothioconazole on crops were recorded.

Table 3.4-1: Presentation of trials (efficacy trials)

Crop*	Country	Type of trial**	Number of trials			Years	GEP, non-GEP, official***	Comments (any other relevant information)
			Maritime	North-East	South-East			
Winter wheat	AT	S + Y + Q	1			2019	GEP	
	CZ	S + Y + Q	15			2019 - 2020	GEP	
	DE	S + Y + Q	36			2018 - 2020	GEP	
	GB	S + Y + Q	10			2019 - 2020	GEP	
	HU	S + Y + Q			35	2018 - 2020	GEP	
	IE	S + Y + Q	4			2019 - 2020	GEP	
	PL	S + Y		1		2019	GEP	
		S + Y + Q		33		2018 - 2020	GEP	
	RO	S + Y + Q			13	2019 - 2020	GEP	
	SK	S + Y + Q			14	2019 - 2020	GEP	
Total winter wheat			**66**	**34**	**62**			
Winter barley	CZ	S + Y + Q	4			2018 - 2020	GEP	
	DE	S + Y + Q	28			2018 - 2020	GEP	
	GB	S + Y + Q	6			2019 - 2020	GEP	
	HU	S + Y + Q			17	2018 - 2020	GEP	
	IE	S + Y + Q	4			2019 - 2020	GEP	
	PL	S + Y + Q		19		2019 - 2020	GEP	
	RO	S + Y + Q			5	2019 - 2020	GEP	
	SK	S + Y + Q			7	2018 - 2020	GEP	
Total winter barley			**42**	**19**	**29**			
Spring barley	CZ	S + Y + Q	10			2018 - 2020	GEP	
	SK	S + Y + Q			2	2020	GEP	
Total spring barley			**10**		**2**			
Winter rye	AT	S + Y + Q	4			2020	GEP	
	CZ	S + Y + Q	5			2019 - 2020	GEP	
	DE	S + Y + Q	15			2019 - 2020	GEP	
	GB	S + Y + Q	3			2019 - 2020	GEP	
	PL	S + Y + Q		9		2019 - 2020	GEP	
Total winter rye			**27**	**9**				
Winter triticale	AT	S	1			2020	GEP	
		S + Y + Q	1			2020	GEP	
	CZ	S + Y + Q	12			2019 - 2020	GEP	
	DE	S + Y + Q	8			2019 - 2020	GEP	
	PL	S + Y + Q		10		2019 - 2020	GEP	
	RO	S + Y + Q			10	2019 - 2020	GEP	
Total winter triticale			**22**	**10**	**10**			
Oats	BE		1			2019	GEP	
	CZ		2			2019	GEP	
	DE		3			2020	GEP	
	NL		2			2020	GEP	
Total oats			**8**					
	CZ	S + Y + Q	2			2019	GEP	

Crop*	Country	Type of trial**	Number of trials			Years	GEP, non-GEP, official***	Comments (any other relevant information)
			Maritime	**North-East**	**South-East**			
Winter oilseed rape	DE	S + Y + Q	3			2018	GEP	
	GB	S + Y + Q	1			2020	GEP	
	HU	S + Y + Q			7	2018 - 2019	GEP	
	PL	S + Y + Q		6		2018 - 2019	GEP	
		S + Y		2		2018	GEP	
	SK	S + Y + Q			2	2019	GEP	
Total winter oilseed rape			**6**	**8**	**9**			

* 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

For the reference standards used in the trials, please refer to table 3.2-6 in the efficacy section (3.2).

3.4.1 Phytotoxicity to host crop (KCP 6.4.1)

As ADM.3500.F.2.B showed no herbicidal activity, no dedicated crop safety trial was necessary (in accordance with EPPO standard PP1/135(4) "Phytotoxicity assessment").

Materials and Methods of efficacy trials have been covered in section 3.2. For trial site details please refer to Appendix 4 of the Biological Assessment Dossier (KCP 6.0 / 001).

EPPO guidelines followed:
EPPO guideline N° PP1/181: Conduct and reporting of efficacy evaluation trials.
EPPO guideline N° PP1/152: Design and analysis of efficacy evaluation trials.
EPPO guideline N° PP1//241: Guidance on Comparable Climates.
EPPO guideline N° PP1/135: Phytotoxicity.
EPPO guideline N° PP1/225: Minimum Effective Dose.
EPPO guideline N° PP1/026: Foliar and ear diseases on cereals.
EPPO guideline N° PP1/078: Root, stem, foliar and pod diseases on oilseed rape.

All trials were placed within regions where small grain cereals or oilseed rape are commonly grown. Detailed information about the testing facilities/organisations and their certificates of recognition is provided in section 3.7.

All assessments were based on a 0-100 scale where 0 means no damage and 100 means total crop loss. Individual phytotoxicity symptoms were recorded where appropriate. Where no phytotoxicity was observed, this was generally recorded within the individual trial reports either as assessment (0) or as text in the comments. No phytotoxicity was observed also in all trials, where no specific ratings or comments were made in the detailed trial records.

Table 3.4-2: Overview and distribution of efficacy trials carried out within the Central European Regulation zone and evaluated for crop safety of product in target crops

Crop	EPPO zone	EU regul. zone	Country	Year 2018	2019	2020	Sum
Winter wheat (TRZAW)	**Maritime**	Central	AT		1		1
			CZ		12	3	15
			DE	12	16	8	36
			UK		6	4	10
			IE		3	1	4
	Maritime Sum			**12**	**38**	**16**	**66**
	North-East	Central	PL	2	23	9	**34**
	South-East	Central	HU	4	24	7	35
			RO		10	3	13
			SK		10	4	14
	South-East Sum			**4**	**44**	**14**	**62**
Winter wheat (sum across zones)				**18**	**105**	**39**	**162**
Winter barley (HORVW)	**Maritime**	Central	CZ	2	2		4
			DE	8	15	5	28
			UK		4	2	6
			IE		3	1	4
	Maritime Sum			**10**	**24**	**8**	**42**
	North-East	Central	PL		13	6	**19**
	South-East	Central	HU	4	10	3	17
			RO		4	1	5
			SK	2	3	2	7
	South-East Sum			**6**	**17**	**6**	**29**
Winter barley (sum across zones)				**16**	**54**	**20**	**90**
Spring barley (HORVS)	**Maritime**	Central	CZ	3	3	4	**10**
	South-East	Central	SK			2	**2**
Spring barley (sum across zones)				**3**	**3**	**6**	**12**
Winter rye (SECCW)	**Maritime**	Central	AT		2	2	4

Crop	EPPO zone	EU regul. zone	Country	Year 2018	2019	2020	Sum
			CZ		1	4	5
			DE		10	5	15
			UK		1	2	3
	Maritime Sum				**14**	**13**	**27**
	North-East	Central	PL		6	3	**9**
Winter rye (sum across zones)					**20**	**16**	**36**
Triticale (TTLSS)	**Maritime**	Central	AT			2	2
			CZ		9	3	12
			DE		6	2	8
	Maritime Sum				**15**	**7**	**22**
	North-East	Central	PL		8	2	**10**
	South-East	Central	RO		6	4	**10**
Triticale (sum across zones)					**29**	**13**	**42**
Oats (AVESA)	**Maritime**	Central	BE		1		1
			CZ		2		2
			DE			3	3
			NL			2	2
	Maritime Sum				**3**	**5**	**8**
Oats (sum across zones)					**3**	**5**	**8**
Oilseed rape (BRSNW)	**Maritime**	Central	CZ		2		2
			DE	3			3
			UK			1	1
	Maritime Sum			**3**	**2**	**1**	**6**
	North-East	Central	PL	4	4		**8**
	South-East	Central	HU	4	3		7
			SK		2		2
	South-East Sum			**4**	**5**		**9**
Oilseed rape (sum across zones)				**11**	**11**	**1**	**23**

3.4.1.1 Wheat

- **Winter wheat**

162 trials were carried out in Austria, Czech Republic, Germany, Ireland, Poland, Hungary, Romania, Slovakia, and United Kingdom in crop seasons 2017/18 to 2019/20 on a wide range of commercially grown cultivars. The frequency and magnitude of the maximum observed phytotoxicity in the trials is shown in table 3.4.1-1.

Table 3.4.1-1: Crop tolerance (maximum observed phytotoxicity) ADM.3500.F.2.B in winter wheat

Crop	Evaluation period	# of tests	ADM.3500.F.2.B 0.8 L/ha	Zonal reference product(s)
			Phyto*(%)	Phyto*(%)
TRZAW	across the whole test period	≤ 5%	162	162
		>5% to 10%	0	0
		>10% to 15%	0	0
		>15 %	0	0

No phytotoxicity symptom caused by ADM.3500.F.2.B at the proposed dose rate of 0.8 L/ha was recorded in all trials.

3.4.1.2 Barley

- **Winter barley**

90 trials were carried out in Czech Republic, Germany, Ireland, Poland, Hungary, Romania, Slovakia, and United Kingdom in crop seasons 2017/18 to 2019/20 on a wide range of commercially grown cultivars. The frequency and magnitude of the maximum observed phytotoxicity in the trials is shown in table 3.4.1-2.

Table 3.4.1-2: Crop tolerance (maximum observed phytotoxicity) ADM.3500.F.2.B in winter barley

Crop	Evaluation period	# of tests	ADM.3500.F.2.B 0.8 L/ha	Zonal reference product(s)
			Phyto*(%)	Phyto*(%)
HORVW	across the whole test period	≤ 5%	90	90
		>5% to 10%	0	0
		>10% to 15%	0	0
		>15 %	0	0

No phytotoxicity symptom caused by ADM.3500.F.2.B at the proposed dose rate of 0.8 L/ha was recorded in all trials.

- **Spring barley**

12 trials were carried out in Czech Republic and Slovakia in crop seasons 2017/18 to 2019/20 on a wide range of commercially grown cultivars. The frequency and magnitude of the maximum observed phytotoxicity in the trials is shown in table 3.4.1-3.

Table 3.4.1-3: Crop tolerance (maximum observed phytotoxicity) ADM.3500.F.2.B in spring barley

Crop	Evaluation period	# of tests	ADM.3500.F.2.B 0.8 L/ha	Zonal reference product(s)
			Phyto*(%)	Phyto*(%)
HORVS	across the whole test period	≤ 5%	12	12
		>5% to 10%	0	0
		>10% to 15%	0	0
		>15 %	0	0

No phytotoxicity symptom caused by ADM.3500.F.2.B at the proposed dose rate of 0.8 L/ha was recorded in all trials.

3.4.1.3 Rye

- **Winter rye**

36 trials were carried out in Austria, Czech Republic, Germany, Poland, and United Kingdom in crop seasons 2018/19 to 2019/20 on a wide range of commercially grown cultivars. The frequency and magnitude of the maximum observed phytotoxicity in the trials is shown in table 3.4.1-4.

Table 3.4.1-4: Crop tolerance (maximum observed phytotoxicity) ADM.3500.F.2.B in winter rye

Crop	Evaluation period	# of tests	ADM.3500.F.2.B 0.8 L/ha	Zonal reference product(s)
			Phyto*(%)	Phyto*(%)
SECCW	across the whole test period	≤ 5%	36	36
		>5% to 10%	0	0
		>10% to 15%	0	0
		>15 %	0	0

No phytotoxicity symptom caused by ADM.3500.F.2.B at the proposed dose rate of 0.8 L/ha was recorded in all trials.

3.4.1.4 Triticale

- **Winter triticale**

42 trials were carried out in Austria, Czech Republic, Germany, Poland, and United Kingdom in crop seasons 2018/19 to 2019/20 on a wide range of commercially grown cultivars. The frequency and magnitude of the maximum observed phytotoxicity in the trials is shown in table 3.4.1-5.

Table 3.4.1-5: Crop tolerance (maximum observed phytotoxicity) ADM.3500.F.2.B in winter triticale

Crop	Evaluation period	# of tests	ADM.3500.F.2.B 0.8 L/ha	Zonal reference product(s)
			Phyto*(%)	Phyto*(%)
TTLSW	across the whole test period	≤ 5%	42	42
		>5% to 10%	0	0
		>10% to 15%	0	0
		>15 %	0	0

No phytotoxicity symptom caused by ADM.3500.F.2.B at the proposed dose rate of 0.8 L/ha was recorded in all trials.

3.4.1.5 Oats

8 trials were carried out in Belgium, Czech Republic, Germany, and Netherlands in crop seasons 2018/19 to 2019/20 on a wide range of commercially grown cultivars. The frequency and magnitude of the maximum observed phytotoxicity in the trials is shown in table 3.4.1-6.

Table 3.4.1-6: Crop tolerance (maximum observed phytotoxicity) ADM.3500.F.2.B in ~~winter triticale~~ oats

Crop	Evaluation period	# of tests	ADM.3500.F.2.B 0.8 L/ha	Zonal reference product(s)
			Phyto*(%)	Phyto*(%)
~~TTLSW~~ **AVESA**	across the whole test period	≤ 5%	8	8
		>5% to 10%	0	0
		>10% to 15%	0	0
		>15 %	0	0

No phytotoxicity symptom caused by ADM.3500.F.2.B at the proposed dose rate of 0.8 L/ha was recorded in all trials.

3.4.1.6 Winter oilseed rape

23 trials were carried out in Czech Republic, Germany, Hungary, Poland, Slovakia, and United Kingdom in crop seasons 2018/19 to 2019/20 on a wide range of commercially grown cultivars. The frequency and magnitude of the maximum observed phytotoxicity in the trials is shown in table 3.4.1-7.

Table 3.4.1-7: Crop tolerance (maximum observed phytotoxicity) ADM.3500.F.2.B in ~~winter triticale~~ oilseed rape

Crop	Evaluation period	# of tests	ADM.3500.F.2.B 0.7 L/ha	Zonal reference product(s)
			Phyto*(%)	Phyto*(%)
BRSNW	across the whole test period	≤ 5%	23	23
		>5% to 10%	0	0
		>10% to 15%	0	0
		>15 %	0	0

No phytotoxicity symptom caused by ADM.3500.F.2.B at the proposed dose rate of 0.7 L/ha was recorded in all trials.

zRMS comments:

Indeed, in any of the reports from the efficacy trials no symptoms of plant damage have been reported by any of the testing units. Therefore the non-submission of the specific selectivity trials has been accepted by zRMS, in accordance with the provisions of the PP 1/135 (4) EPPO guidance “Phytotoxicity assessment”.

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

Since this part concerns only trials in pest-free conditions, no data are presented. Yield results achieved from efficacy trials are presented in section 3.2 (efficacy data). As ADM.3500.F.2.B showed no herbicidal activity, no dedicated crop safety trial was necessary (in accordance with EPPO standard PP1/135(4) “Phytotoxicity assessment”).

zRMS comments:

The applicant`s justification has been accepted by zRMS as resulting from the non-submission of the dedicated selectivity trials; see the zRMS comments to 3.4.1, in the preceding comm. box.

3.4.3 Effects on the quality of plants or plant products (KCP 6.4.3)

The yield quality results separated by uses of the harvested efficacy trials of ADM.3500.F.2.B are already presented in the efficacy section (3.2.2). In this section, the results are presented for the crops across the uses.

For details on trial methodology, please refer to section 3.2.2.

Quality parameters like the thousand grain weight, the volume weight (hectolitre weight) of grains, protein content, starch content, and/or oil content (in oilseed rape) are presented from trials where yield was taken. Since ~~any~~ no adverse effects on the target crops have been observed, the results of the zonal reference products (200 g/ha prothioconazole in cereals; 175 g/ha prothioconazole in oilseed rape) are presented only for comparison.

Wheat

Table 3.4.3-1: Distribution of trials providing quality results of grains in wheat (number of trials)

			Thousand grain weight				Hectolitre weight				Protein content			
Zones	**Europ reg. Zone**	**Country**	**Year 2018**	**2019**	**2020**	**Sum**	**Year 2018**	**2019**	**2020**	**Sum**	**Year 2018**	**2019**	**2020**	**Sum**
Maritime	Central	AT	.	1	.	1	.	1	.	1	3	1		4
		CZ	.	12	3	15	.	12	3	15				
		DE	12	16	8	36	6	16	8	30				
		UK	.	5	4	9	.	6	4	10				
		IE	.	3	1	4	.	3	1	4				
Maritime Sum			**12**	**37**	**16**	**65**	**6**	**38**	**16**	**60**	**3**	**1**	**0**	**4**
North-East	Central	PL	2	22	9	**33**	1	23	9	**32**				
South-East	Central	HU	4	24	7	35	.	10	5	15				
		RO	.	10	3	13	.	8	3	11				
		SK	.	10	4	14	.	9	3	12	.	1		1
South-East Sum			**4**	**44**	**14**	**62**	**0**	**27**	**11**	**38**	**0**	**1**	**0**	**1**
Sum across zones			**18**	**103**	**39**	**160**	**7**	**88**	**36**	**131**	**3**	**2**	**0**	**5**

In 160 trials conducted in wheat between 2018 and 2020 quality parameters of yield were reported from Austria, Czech Republic, Germany, Hungary, Ireland, Poland, Romania, Slovakia, and United Kingdom. The results are presented in table 3.4.3-2.

Table 3.4.3-2: Quality parameters of yield in harvested efficacy trials in wheat (relative to UTC (=100))

		Quality parameters of yield					
		TGW		**HLW**		**PRC**	
Zones		**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**
Maritime	Mean	108.1	107.4	103.0	102.8	98.6	100.6
	Range	95-164	97-158	99-125	99-124	91-104	97-104
	Nº	65	65	60	59	4	4
N-East	Mean	103.5	103.6	101.3	101.5		
	Range	98-111	98-113	96-105	98-105		
	Nº	33	33	33	33	0	0
S-East	Mean	102.7	102.6	100.9	101.2	101.1	102.5
	Range	98-114	94-122	82-111	89-110		
	Nº	62	62	38	38	1	1
Across zones	**Mean**	**105.0**	**104.8**	**102.0**	**102.0**	**99.1**	**101.0**
	Range	**95-164**	**94-158**	**82-125**	**89-124**	**91-104**	**97-104**
	Nº	**160**	**160**	**131**	**130**	**5**	**5**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content

The studies revealed no negative impact of ADM.3500.F.2.B on quality of wheat.

Barley

Table 3.4.3-3: Distribution of trials providing quality results of grains in barley (number of trials)

			Thousand grain weight				Hectolitre weight				Protein content				Starch content			
Zones	**Europ reg.**	**Country**	**Year 2018**	**2019**	**2020**	**Sum**	**Year 2018**	**2019**	**2020**	**Sum**	**Year 2018**	**2019**	**2020**	**Sum**	**Year 2018**	**2019**	**2020**	**Sum**
Maritime	Central	CZ	5	5	4	14	1	5	4	10				0				0
		DE	8	14	5	27	6	14	5	25	1	4	.	5	.	1	.	1
		UK	.	2	2	4	.	4	2	6	.	.	.	0	.		.	0
		IE	.	3	.	3	.	3	.	3	.	.	.	0	.		.	0
Maritime Sum			**13**	**24**	**11**	**48**	**7**	**26**	**11**	**44**	**1**	**4**	**0**	**5**	**0**	**1**	**0**	**1**
North-East	Central	PL	.	13	6	**19**	.	13	6	**19**	.	.		0	.	.		0
South-East	Central	HU	4	10	3	17	.	4	3	7	.	.		0	.	.		0
		RO	.	4	1	5	.	4	1	5	.	.		0	.	.		0
		SK	2	3	4	9	1	3	4	8	.	.	1	1	.	.		0
South-East Sum			**6**	**17**	8	**31**	**1**	**11**	8	**20**	**0**	**0**	**1**	**1**	**0**	**0**	0	**0**
Sum across zones			**19**	**54**	**25**	**98**	**8**	**50**	**25**	**83**	**1**	**4**	**1**	**6**	**0**	**1**	**0**	**1**

In 98 trials conducted in barley between 2018 and 2020 quality parameters of yield were reported from Czech Republic, Germany, Hungary, Ireland, Poland, Romania, Slovakia, and United Kingdom. The results are presented in table 3.4.3-4.

Table 3.4.3-4: Quality parameters of yield in harvested efficacy trials in barley (relative to UTC (=100))

		Quality parameters of yield							
		TGW		**HLW**		**PRC**		**STC**	
Zones		**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Prod-uct(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Prod-uct(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Prod-uct(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Prod-uct(s)**
Maritime	Mean	106.7	106.1	103.3	102.4	101.8	100.4	100.6	101.6
	Range	100-123	74-124	99-114	76-114	99-104	94-105		
	Nº	48	48	44	44	5	5	1	1
N-East	Mean	103.6	103.6	101.8	101.9				
	Range	98-111	100-112	99-106	99-106				
	Nº	19	19	19	19	0	0	0	0
S-East	Mean	102.2	102.5	101.8	101.8	93.6	97.3		
	Range	98-111	100-110	98-109	97-109				
	Nº	31	31	20	20	1	1	0	0
Across zones	**Mean**	**104.7**	**104.5**	**102.6**	**102.2**	**100.4**	**99.9**	**100.6**	**101.6**
	Range	**98-123**	**74-124**	**98-114**	**76-114**	**94-104**	**94-105**		
	Nº	**98**	**98**	**83**	**83**	**6**	**6**	**1**	**1**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content; STC = Starch content

The studies revealed no negative impact of ADM.3500.F.2.B on quality of barley.

Rye

Table 3.4.3-5: Distribution of trials providing quality results of grains in rye (number of trials)

			Thousand grain weight				Hectolitre weight				Protein content			
Zones	**Europ reg. Zone**	**Country**	**Year 2018**	**2019**	**2020**	**Sum**	**Year 2018**	**2019**	**2020**	**Sum**	**Year 2018**	**2019**	**2020**	**Sum**
Maritime	Central	AT		1	1	2		1	2	3				0
		CZ		1	4	5		1	4	5				0
		DE		10	5	15		10	5	15		1		1
		UK		1	2	3		1	2	3				0
Maritime Sum				**13**	**12**	**25**		**14**	**13**	**27**		**2**	**0**	**2**
North-East	Central	PL		6	3	9		6	3	9				0
Sum across zones				**19**	**15**	**34**		**19**	**16**	**35**		**1**	**0**	**1**

In 35 trials conducted in rye between 2019 and 2020 quality parameters of yield were reported from Austria, Czech Republic, Germany, Poland, and United Kingdom. The results are presented in table 3.4.3-6.

Table 3.4.3-6: Quality parameters of yield in harvested efficacy trials in rye (relative to UTC (=100))

Zones		Quality parameters of yield					
		TGW		HLW		PRC	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)
Maritime	Mean	105.9	107.0	101.3	100.9	101.1	108.8
	Range	105-106	106-108	98-109	98-106	101-101	109-109
	Nº	2	2	26	26	1	1
N-East	Mean	105.7	105.3	102.2	102.0		
	Range	101-115	101-115	100-104	101-104		
	Nº	9	9	9	9	0	0
Across zones	**Mean**	**105.1**	**104.6**	**101.6**	**101.2**	**101.1**	**108.8**
	Range	**96-116**	**98-116**	**98-109**	**98-106**	**101-101**	**109-109**
	Nº	**34**	**34**	**35**	**35**	**1**	**1**

TGW = Thousand grain weight; HLW = Hectolitre weight; PRC = Protein content

The studies revealed no negative impact of ADM.3500.F.2.B on quality of rye.

Triticale

Table 3.4.3-7: Distribution of trials providing quality results of grains in triticale (number of trials)

Zones	Europ reg. Zone	Country	Thousand grain weight Year 2018	2019	2020	Sum	Hectolitre weight Year 2018	2019	2020	Sum
Maritime	Central	AT		.	1	1		.	1	1
		CZ		9	3	12		9	3	12
		DE		6	2	8		6	2	8
Maritime Sum			**0**	**15**	**6**	**21**	**0**	**15**	**6**	**21**
North-East	Central	PL		8	2	**10**		8	2	**10**
South-East	Central	RO		6	4	**10**		6	4	**10**
Sum across zones			**0**	**29**	**12**	**41**	**0**	**29**	**12**	**41**

In 41 trials conducted in triticale between 2019 and 2020 quality parameters of yield were reported from Austria, Czech Republic, Germany, Poland, and Romania. The results are presented in table 3.4.3-8.

Table 3.4.3-8: Quality parameters of yield in harvested efficacy trials in triticale (relative to UTC (=100))

Zones		Quality parameters of yield			
		TGW		HLW	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)
Maritime	Mean	104.2	104.6	101.4	101.1
	Range	96-110	98-112	100-106	99-108
	Nº	21	21	21	21
N-East	Mean	104.9	103.9	101.4	101.2
	Range	101-112	100-110	100-104	99-103
	Nº	10	10	10	10
S-East	Mean	105.2	104.3	103.0	102.8
	Range	98-118	99-114	101-106	101-105
	Nº	10	10	10	10
Across zones	**Mean**	**104.6**	**104.3**	**101.8**	**101.5**
	Range	**96-118**	**98-114**	**100-106**	**99-108**
	Nº	**41**	**41**	**41**	**41**

TGW = Thousand grain weight; HLW = Hectolitre weight

The studies revealed no negative impact of ADM.3500.F.2.B on quality of triticale.

Oats

Table 3.4.3-9: Distribution of trials providing quality results of grains in oats (number of trials)

			Thousand grain weight				Hectolitre weight			
Zones	**Europ reg. Zone**	**Country**	**2018**	**Year 2019**	**2020**	**Sum**	**2018**	**Year 2019**	**2020**	**Sum**
Maritime	Central	BE		1	.	1		1	.	1
		CZ		2	.	2		2	.	2
		DE		.	2	2		.	3	3
		NL		.	2	2		.	2	2
Maritime Sum				**3**	**4**	**7**		**3**	**5**	**8**

In 8 trials conducted in oats between 2019 and 2020 quality parameters of yield were reported from Belgium, Czech Republic, Germany, and Netherlands. The results are presented in table 3.4.3-10.

Table 3.4.3-10: Quality parameters of yield in harvested efficacy trials in oats (relative to UTC (=100))

		Quality parameters of yield			
		TGW		HLW	
Zones		**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**
Maritime	**Mean**	**102.7**	**101.6**	**100.7**	**101.3**
	Range	**97-108**	**95-107**	**98-102**	**99-102**
	Nº	**7**	**7**	**8**	**8**

TGW = Thousand grain weight; HLW = Hectolitre weight

The studies revealed no negative impact of ADM.3500.F.2.B on quality of oats.

Oilseed rape

Table 3.4.3-11: Distribution of trials providing quality results of grains in oilseed rape (number of trials)

			Thousand grain weight				Oil content			
Zones	**Europ reg. Zone**	**Country**	**2018**	**Year 2019**	**2020**	**Sum**	**2018**	**Year 2019**	**2020**	**Sum**
Maritime	Central	CZ	.	2	.	2		2		2
		DE	3	.	.	3				0
		UK	.	.	1	1				0
Maritime Sum			**3**	**2**	**1**	**6**	**0**	**2**	**0**	**2**
North-East	Central	PL	4	4	.	**8**		4		**4**
South-East	Central	HU	4	3	.	7		3		3
		SK	.	2	.	2		2		2
South-East Sum			**4**	**5**	**0**	**9**	**0**	**5**	**0**	**5**
Sum across zones			**11**	**11**	**1**	**23**	**0**	**11**	**0**	**11**

In 23 trials conducted in oilseed rape between 2018 and 2020 quality parameters of yield were reported from Czech Republic, Germany, Hungary, Poland, Slovakia, and United Kingdom. The results are presented in table 3.4.3-12.

Table 3.4.3-12: Quality parameters of yield in harvested efficacy trials in oilseed rape (relative to UTC (=100))

		Quality parameters of yield			
		TGW		OC	
Zones		**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**	**ADM.3500.F.2.B 0.8 L/ha**	**Zonal Reference Product(s)**
Maritime	Mean	102.1	103.0	100.2	100.1
	Range	100-105	101-105	100-100	100-100

Zones		Quality parameters of yield			
		TGW		OC	
		ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)	ADM.3500.F.2.B 0.8 L/ha	Zonal Reference Product(s)
	Nº	6	6	2	2
N-East	Mean	102.9	103.7	101.4	101.8
	Range	99-105	100-107	100-102	101-102
	Nº	8	8	4	4
S-East	Mean	103.5	104.1	100.9	100.7
	Range	95-112	98-112	100-102	100-102
	Nº	9	9	5	5
Across zones	**Mean**	**102.9**	**103.7**	**100.9**	**101.0**
	Range	**95-112**	**98-112**	**100-102**	**100-102**
	Nº	**23**	**23**	**11**	**11**

TGW = Thousand grain weight; OC = Oil content

The studies revealed no negative impact of ADM.3500.F.2.B on quality of oilseed rape.

zRMS comments:

The summaries presented with reference to the yield quality sort of rephrase the results already demonstrated in Efficacy chapter, bringing little new information. The absence of negative effect on the yield quality has been already acknowledged by the zRMS in the comments to the 3.2.3 chapter, where the same data are compiled use-wise.

3.4.4 Effects on transformation processes (KCP 6.4.4)

No relevant residues of prothioconazole or its metabolites are present in the target crops at harvest after a timely application of 0.8 L/ha of ADM.3500.F.2.B on small grain cereals or 0.7 L/ha on oilseed rape. If the product is used correctly and in the designated way, relevant residues in harvested plants or plant products can be excluded. Special investigations on possible effects on transformation processes are not required. Since the market introduction of the active ingredient prothioconazole, ~~any~~ no cases of negative influences on parameters influencing the processing procedure of target crop plants or grains were reported, neither from practical use nor from trial experience.

zRMS comments:

The applicant makes no reference to any specific data that would support the statement of “no relevant residue” in the plant material harvested. As **the efficacy section does not deal directly with residue part of the dossier**, a more complete information is expected for the point 3.4.4, justifying the claim that no data concerning effect on transformation are indeed required. The PP 1/243(2) EPPO guidance has it as follows: “*If the applicant can demonstrate that residues are undetectable, or that any residues will not affect yeasts, a reasoned case may be sufficient to address these requirements.*” Therefore “the reasoned case” is in fact expected, in the Efficacy part of the dossier, supported by the reliably quoted data from the Residue part. Without it, the applicant`s statement is void, even taken the status of prothioconazole as already known active. That the residue is not relevant does not mean it is non-detectable, or not affecting transformation process. The latter, however, must be demonstrated against the treshold that triggers requirement for the transformation data, before the present point can be finalized.

The applicant`s response:
Based on the results of residue trials for prothioconazole, significant residue levels will not occur in cereals and oilseed rape at harvest. Accordingly based on EPPO PP1_135 (4), processing studies are not required.
In addition, robust processing factors are derived for the active substance which are used in the dietary burden calculations (cattle) and in the exposure assessments through diet and other means for humans. Details are reported in dRR part B Section 7.

3.4.5 Impact on treated plants or plant products to be used for propagation (KCP 6.4.5)

Neither from the agricultural use of prothioconazole during the past years, nor from field trials, there is any information that the application of products containing this active ingredient has any influence on the propagation behaviour of the target crops.

Summary and conclusion
Based on the results of 350 trials in cereal crops and 23 trials in oilseed rape, it can be concluded that ADM.3500.F.2.B is very safe on the target crops. If applied at the intended target dose rate (0.8 L/ha in cereal crops and 0.7 L/ha in oilseed rape) there is no risk for enduring crop injury, adverse effects on yield quantity, and yield quality. Since market introduction of prothioconazole containing products the experience proves that prothioconazole has no adverse effects on transformation processes or plant parts or products used for propagation.

zRMS comments: The present part of the dossier does not include any specific data on propagative capacity of the seed material harvested from the crops protected by ADM.03500.F.2.B. The quality parameters presented above such as TGW, HLW, protein, starch and oil content are not directly indicative of the germinating ability of the seeds harvested. The zRMS is not suggesting that new germinating study is necessary for the present dossier, but any existing data on germination from any previous prothioconazole studies should be presented briefly or at least referred to, for completeness. **The applicant`s response:** Based on the results of residue trials for prothioconazole, significant residue levels will not occur in cereals and oilseed rape at harvest. Accordingly based on EPPO PP1_243 (2), processing studies are not required.

3.5 Observations on other undesirable or unintended side-effects (KCP 6.5)

3.5.1 Impact on succeeding crops (KCP 6.5.1)

Since ADM.3500.F.2.B shows ~~any~~ no herbicidal activity, it can be concluded that there is ~~any~~ no impact of the product on succeeding crops if the product is applied according to good agricultural practice.

zRMS comments: Based on the absence of herbicidal activity the zRMS shares the view of the applicant concerning impact on succeeding crops.

3.5.2 Impact on other plants including adjacent crops (KCP 6.5.2)

Drift onto adjacent crops should be generally avoided. Since ADM.3500.F.2.B doesn`t show~~s~~ any herbicidal activity, there is no risk for adjacent crops to become injured, even in case of improper applications.

zRMS comments: Accepted.

3.5.3 Effects on beneficial and other non-target organisms (KCP 6.5.3)

No observations about effects of ADM.3500.F.2.B on beneficials or other non-target organisms were reported in the field trials. The results of the required standard tests are presented and discussed in Part B - Section 6, see Part A – Chemical Plant Protection Products, section 10 (Eco-toxicological Studies).

3.6 Other/special studies

No other/special studies are available.

3.7 List of test facilities including the corresponding certificates

The majority of corresponding certificates, confirming that all the test facilities mentioned have been officially recognized as organizations for efficacy testing of plant protection products according to the Directive 93/71/EC, are available in the GEP certibase (www.gepcertibase.eu). Corresponding certificates are available hereafter.

Table 3.7-1: List of test facilities

Test facility	Address		Certificate (Yes or No)	Link of GEP Certibase
Eurofins Agroscience Services Austria GmbH (Austria)	Graz	Austria	YES	1d65893d1e3
Staphyt Austria GmbH	Rohrau	Austria	YES	1d65893d471
Eurofins Agroscience Services Belgium NV	Haasdonk (Beveren)	Belgium	YES	1d65893d328
DITANA spol. s.r.o.	Velka Bystrice	Czech Republic	YES	1d65893d1e2
InTec Agro Trials s.r.o.	Uhersky Ostroh	Czech Republic	YES	1d65893d2e8
Zemedelska zkusebni stanice Kujavy, s.r.o.	Fulnek	Czech Republic	YES	1d65893d275
Zemedelsky vyzkumny ustav Kromeriz, s.r.o.	Kromeriz	Czech Republic	YES	1d65893d231
Zemservis zkusebni stanice Domaninek, s.r.o.	Bystrice nad Pernstejnem	Czech Republic	YES	1d65893ce00
Zkusebni stanice Nechanice s.r.o.	Nechanice	Czech Republic	YES	1d65893d1e9
Zkusebni Stanice Trutnov. s.r.o.	Trutnov	Czech Republic	YES	1d65893d216
Zsusebni stanice Rymarov s.r.o.	Rymarov	Czech Republic	YES	1d65893d26d
Agrartest GmbH	Aarbergen-Panrod	Germany	YES	1d65893d1dd
Agricola	Leiblfing	Germany	YES	1d65893d437
Agro-Check Dr. Teresiak & Erdmann GbR Landwirtschaftliche Forschung, Entwicklung und Beratung	Lenzke	Germany	YES	1d65893d364 1d65893d171
BioChem Agrar GmbH	Machern OT Gerichshain	Germany	YES	1d65893d0eb 1d65893d372
Field Research Support (DE)	Wunstorf	Germany	YES	1d65893d262
Hetterich Fieldwork GbR	Schwarzach	Germany	YES	1d65893d05e 1d65893d43c
Martin Feldversuchswesen Ing.-Büro zur Durchführung von Feldversuchen	Orsingen-Nenzingen	Germany	YES	1d65893d279

Test facility	Address		Certificate (Yes or No)	Link of GEP Certibase
STAPHYT GmbH	Blaufelden	Germany	YES	1d65893d20f
Syntech Research Germany GmbH	Preetz	Germany	YES	1d65893d362
Trial-Tec	Holtsee	Germany	YES	1d65893d40b
U. A. S. Umwelt - und Agrarstudien GmbH	Jena	Germany	YES	1d65893d1b6 1d65893d3bf
CPR Europe Kft.	Szombathely	Hungary	YES	1d65893d42c
Fructica Kft.	Dunaalmas	Hungary	YES	1d65893d444
Novenypathyka Kft	Kaposvar	Hungary	YES	1d65893d0b5
SGS Hungaria Kft	Budapest	Hungary	YES	1d65893d1a2 1d65893d3c0
Syntech Research Hungary Kft.	Taplanszentkereszt	Hungary	YES	1d65893d3c3
TEAGASC	Carlow	Ireland	YES	1d65893d35b 1d65893d442
Cultus Crop Research	Lottum	Netherlands	YES	1d65893d35e
Agreco Sp. z o.o.	Wroclaw	Poland	YES	1d65893d199 1d65893d475
Agro Research Consulting	Lowicz	Poland	YES	1d65893d2dc 1d65893d3c4
Eurofins Agroscience Services sp. Zoo (Poland)	Kaźmierz	Poland	YES	1d65893d206
Fertico Sp. z o.o.	Bledow	Poland	YES	1d65893d441
Field Research Support (PL)	Koscian	Poland	YES	1d65893d1c9
Poznan University of Life Sciences Experimental and Didactic Section of Tillage and Plant Cultivation Gorzyn Department of Agronomy	Poznan	Poland	YES	1d65893d21b
Staphyt Sp. z o.o.	Poznan	Poland	YES	1d65893d440
AgroProspect S.R.L.	Hoghiz	Romania	YES	1d65893d2e2
Eurofins Agroscience Services Srl (Romania)	Timisoara	Romania	YES	1d65893d15d
Berberis s.r.o.	Boliarov	Slovakia	YES	1d65893d313
Blumeria consulting s.r.o.	Nitra	Slovakia	YES	1d65893d219
FYSE s.r.o. Odd. AgroLab Kolare	Kolare	Slovakia	YES	1d65893d19d
Gemerprodukt Valice ovocinarsko-vinohradnicke druzstvo	Rimavska Sobota	Slovakia	YES	1d65893d1ad
NPPC, VURV, VSS Viglas-Pstrusa	Detva	Slovakia	YES	1d65893d26c 1d65893d384
Ustredny kontrolny a skusobny ustav pol'nohospodarsky v Bratislave - Bratislave	Bratislava	Slovakia	YES	1d65893d1ce
ADAS UK Ltd	Wolverhampton	UK	YES	1d65893d3df
Armstrong Fisher Ltd	Peterborough	UK	YES	1d65893d18e 1d65893d45e
Eurofins Agroscience Services Ltd (UK)	Derby	UK	YES	1d65893d31c
Oxford Agricultural Trials Ltd	Bicester	UK	YES	1d65893d34b

Test facility	Address		Certificate (Yes or No)	Link of GEP Certibase
Test facilities of supporting tests				
University of Aarhus	Slagelse	Denmark	YES	1d65893d0be 1d65893d3e1
Latvian Plant Protection Research Centre Ltd./ SIA Latvijas Augu aizsardzibas petniecibas centrs	Riga	Latvia	YES	1d65893d226
Essais Plus	Boyelles	France	YES	1d65893d0ba 1d65893d36c
Staphyt (France)	Inchy en Artois	France	YES	1d65893d297

Appendix 1 Lists of data considered in support of the evaluation

List of data submitted by the applicant and relied on

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.0	Nelgen, N.	2021	Biological Assessment Dossier of ADM.3500.F.2.B (Part B, Section 7– Core assessment - Central Zone / Southern Zone / Northern Zone) Dr. Norbert Nelgen Scientific Consulting - / not published	N	ADAMA Agriculture
KCP 6.2	Abts, K.	2019	Determination of Efficacy of ADM.3500.F.2.B against Crown rust (PUCCCO) in oats. Belgium, 2019. BE19FEAVESA043C EAS Belgium GEP y not published	N	ADAMA Agriculture
KCP 6.2	Armstrong, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow Rust (PUCCST) on winter wheat in the UK, 2019 UK19FETRZAW509A Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Armstrong, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow Rust (PUCCST) on winter wheat in the UK, 2019 UK19FETRZAW509B Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Armstrong, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in UK, 2020 UK20FETRZAW531B Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Armstrong, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in UK, 2020 UK20FETRZAW532B Armstrong Fisher Ltd. GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2020 HU20FETRZAW212A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2020 HU20FETRZAW212B CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211B CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211C CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211D	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			CPR Europe Kft. GEP y not published		
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2020 HU20FETRZAW210A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2020 HU20FEHORVW221A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Hungary, 2020 HU20FEHORVW220A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Hungary, 2020 HU20FEHORVW220B CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Bauer, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech republic, 2020 CZ20FETRZAW251C InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.2	Bauer, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			CZ20FEHORVS255D InTec Agro GEP y not published		
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in ROMANIA, 2019 RO19FETRZAW151A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in ROMANIA, 2019 RO19FETRZAW151B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in ROMANIA, 2019 RO19FETRZAW153A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in ROMANIA, 2019 RO19FETRZAW153B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in ROMANIA, 2019 RO19FETRZAW152A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture

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KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in ROMANIA, 2019 RO19FETRZAW152B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (country), 2019 RO19FETRZAW150A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (country), 2019 RO19FETRZAW150B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in ROMANIA, 2019 RO19FETRZAW154A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in ROMANIA, 2019 RO19FETRZAW154B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in ROMANIA, 2019 RO19FEHORVW156A-RO01 AgroProspect SRL GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in ROMANIA, 2019 RO19FEHORVW156B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in ROMANIA, 2019 RO19FEHORVW155A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in ROMANIA, 2019. RO19FEHORVW155B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in ROMANIA, 2019 RO19FETTLSS157A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in ROMANIA, 2019 RO19FETTLSS157B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in ROMANIA, 2019 RO19FETTLSS158A AgroProspect SRL	N	ADAMA Agriculture

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			GEP y not published		
KCP 6.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in ROMANIA, 2019 RO19FETTLSS158B AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Romania, 2020 RO20FETRZAW217A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Romania, 2020 RO20FETRZAW217B AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in ROMANIA, 2020 RO20FETRZAW218A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in ROMANIA, 2020 RO20FEHORVW216A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Romania, 2020 RO20FETTLSS219AA AgroProspect SRL GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Romania, 2020 RO20FETTLSS219AB AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in Romania, 2020 RO20FETTLSS220A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in Romania, 2020 RO20FETTLSS220B AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Hungary in 2018. HU18FETRZAW122B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Hungary in 2018. HU18FEHORVW124A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Hungary in 2018. HU18FEHORVW125B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120D Syntech HU GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Brodala, M	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW290C Eurofins Agrosciensce Services Sp. z o.o. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Brož, M.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in the Czech Republic, 2019 CZ19FETTLSS212A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.2	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech republic, 2020 CZ20FETRZAW251A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.2	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.2	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in the Czech republic, 2020 CZ20FESECCW256A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.2	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech republic, 2020 CZ20FETTLWI258A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			ZZS Kujavy GEP y not published		
KCP 6.2	Cáp, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVX922D ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVX922A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW200A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in the CZech Republic, 2019 CZ19FETRZAW203A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in the Czech Republic, 2019 CZ19FEHORVW205B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in the Czech Republic, 2019 CZ19FEHORVS207A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			ZS Nechanice GEP y not published		
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in the Czech Republic, 2019 CZ19FETTLWI212B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in the Czech Republic, 2019 CZ19FETTLWI215A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech Republic, 2019 CZ19FETTLWI238A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia c. (PUCCCO) on oat in the Czech Republic, 2019 CZ19FEAVESA216A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia c. (PUCCCO) on oat in the Czech Republic, 2019 CZ19FEAVESA216B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in the Czech republic, 2019	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			CZ19FEBRSNW305B ZS Nechanice GEP y not published		Agriculture
KCP 6.2	Cáp, J.	2020	Efficacy evaluation of different ADM.3500.F formulations for the control of Septoria tritici (SEPTTR) on winter wheat in ther Czech republic, 2020 CZ20FETRZAW262B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the Czech republic, 2020 CZ20FESECCW257C ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Cáp, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech republic, 2020 CZ20FETTLWI259A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Crépin, D.	2019	Evaluation of efficacy and selectivity of ADM.3500.F.2.B for the control of Alternaria brassicae on oilseed rape, France, 2019 FR19FEBRSNN306A Essais+ GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Crépin, D.	2019	Evaluation of efficacy and selectivity of ADM.3500.F.2.B for the control of Alternaria brassicae (ALTEBA) on oilseed rape, France, 2019 FR19FEBRSNN306B Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2	Dana, P.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in the Czech republic, 2019 CZ19FEBRSNW305A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.2	Deirdre, D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in IRELAND, 2019 IE19FETRZAW517B Teagasc GEP y not published	N	ADAMA Agriculture
KCP 6.2	Doyle, D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in IRELAND, 2019 IE19FEHORVW516C Teagasc GEP y not published	N	ADAMA Agriculture
KCP 6.2	Ducrot, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in France, 2020 ADAMA FR20FEHORVW301A ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture
KCP 6.2	Endres, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Endres, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.2	Endres, U.	2019	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.2	Endres, U.	2019	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in UK, 2020 UK20FEHORVW533A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in UK, 2020 UK20FEHORVW533B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRR) on rye in UK, 2020 UK20FESECSS535A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRR) on rye in UK, 2020 UK20FESECSS535B OAT, Oxford GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Alternaria on oilseed rape in UK, 2020 UK20FEBRSNW536A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Furman-Fratczak, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Furman-Fratczak, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW284B_ AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW287A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW287B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW284A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Fusarium Head blight (at T3) on winter wheat in Poland, 2019 PL19FETRZAW288C AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW290A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW290B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Gajek, D.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on rye in Poland, 2019 PL19FESECSS293C Eurofins Austria GEP y not published	N	ADAMA Agriculture
KCP 6.2	Gajek, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2020 PL20FETRZAW034A Agro Research Consulting GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Gajek, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2020 PL20FESECSS039A Agro Research Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.2	Gezova, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW230A InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.2	Gezova, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW231B InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.2	Gezova, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech Republic, 2019 CZ19FEHORVS234B InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.2	Gezova, V.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in the Czech Republic, 2019 CZ19FEHORVW207B InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.2	Gulbis, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Sclerotinia sclerotiorum in winter oilseed rape in Latvia in 2019 LV19FEBRSNN500A LPPRC Riga GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Gulbis, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia sclerotiorum in winter oilseed rape in Latvia in 2020 LV20FEBRSNW519B LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hansen Kemezys, A.; Hartwig, P.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Sclerotinia sclerotiorum in winter oilseed rape in Denmark in 2019. DK19FEBRSNW256A University of Aarhus GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hetterich, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2019 DE19FETRZAW203B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hetterich, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW230B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hetterich, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW202B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in IRELAND, 2019 IE19FETRZAW517A Eurofins Agroscience GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat IRELAND UK, 2019 IE19FETRZAW518A ADAMA Makhteshim Ltd GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the UK, 2019 UK19FETRZAW510B Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in IRELAND, 2019 IE19FEHORVW516A Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in IRELAND, 2019 IE19FEHORVW516B Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.2	Holcikova,D.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Slovakia in 2018. SK18FEHORVW922B Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Slovakia, 2019 SK19FETRZAW229A Fyse GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Slovakia, 2019 SK19FETRZAW301B Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2019 SK19FETRZAW302A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Slovakia, 2019 SK19FEHORVW303B Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Slovakia, 2019 SK19FEHORVW232A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.2	Holcikova,D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2020 SK20FETRZAW252A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.2	Holcikova,D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Slovakia, 2020 SK20FEHORVW267A Fyse GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Hrabovský, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW201A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hrabovský, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW230B ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hrabovský, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW301B ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hrabovský, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech Republic, 2019 CZ19FETTLSS237B ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hruška, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW201B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hruška, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW203B ZS Nechanice GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Hruška, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRE) on triticale in the Czech Republic, 2019 CZ19FETTLWI215B ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Slovakia, 2019 SK19FETRZAW300A Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Slovakia, 2019 SK19FETRZAW300B Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Slovakia, 2019 SK19FETRZAW231A Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Slovakia, 2019 SK19FETRZAW231B Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.2	Hudec, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Slovakia, 2020 SK20FETRZAW265B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Blumeria Consulting GEP y not published		
KCP 6.2	Hudec, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Slovakia, 2020 SK20FEHORVW266B Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.2	Izsányi, L.I.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis and Zymoseptoria tritici on wheat, in Hungary in 2018. HU18FETRZAW122A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Izsányi, L.I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Hungary, 2019 HU19FEBRSNW200C Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Joynt, R.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the UK, 2019 UK19FETRZAW510A ADAS GEP y not published	N	ADAMA Agriculture
KCP 6.2	Joynt, R.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in UK, 2020 UK20FETRZAW534A RSK ADAS Ltd GEP y not published	N	ADAMA Agriculture
KCP 6.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Slovakia, 2019 SK19FETRZAW229B BERBERIS s.r.o.	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2019 SK19FETRZAW302B BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Slovakia, 2019 SK19FEHORVW303A BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Slovakia, 2019 SK19FEBRSNW305A BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Slovakia, 2019 SK19FEBRSNW305B BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kay, C.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the UK, 2019 UK19FESECCW513A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in the UK, 2019 UK19FETRZAW508A OAT, Oxford GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in the UK, 2019 UK19FETRZAW508B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in the UK, 2019 UK19FEHORVW511A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in the UK, 2019 UK19FEHORVW511B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the UK, 2019 UK19FEHORVW512B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the UK, 2019 UK19FEHORVW512A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kohrman, E.J.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in The Netherlands 2020 NL20FEAVESA014A Cultus GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Kohrman, E.J.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in The Netherlands 2020 NL20FEAVESA014B Cultus GEP y not published	N	ADAMA Agriculture
KCP 6.2	Konvalinkova, J.	2020	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in the Czech Republic, 2019 CZ19FEHORVW205A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253C Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2020 DE20FEHORVW255A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2020 DE20FESECSS257A Trial-Tec GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in (Germany), 2020 DE20FEAVESA260B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kovacova, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Slovakia, 2020 SK20FEHORVW254A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065C AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065D AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW416A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW416B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW419A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW419B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW421A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW421B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW424A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW424B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2020	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL20FETRZAW031A AGRECO SP. Z O.O. GEP y not published		
KCP 6.2	Kukula, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley inPoland, 2020 PL20FEHORVW036B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Kukula, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in Poland 2020 PL20FEHORVW038A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914D BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916B BioChem Agrar GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Germany in 2018. DE18FEBRSNW918C BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Labusch, U.	2019	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Germany in 2018. DE18FEBRSNW918B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Labusch, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2019 DE19FETRZAW203A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Labusch, U.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2019 DE19FEHORVW233C BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Laug, S.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.2	Laug, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Germany), 2019 DE19FETTLSS237B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Hetterich Fieldworks GEP y not published		
KCP 6.2	Magyar, B.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204D Fructika GEP y not published	N	ADAMA Agriculture
KCP 6.2	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211E Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS236B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Germany), 2019 DE19FESECSS235A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in (Germany), 2019 DE19FETTLSS215C Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253F	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Agrartest GEP y not published		
KCP 6.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2020 DE20FEHORVW254D Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2020 DE20FEHORVW255B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Germany), 2020 DE20FESECSS256B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2020 DE20FESECSS257B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2020 DE20FESECSS257C Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Makó, I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Syntech HU GEP y not published		
KCP 6.2	Makó, I.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW113A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Makó, I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW203A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Makó, I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW202A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Makó, I.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Hungary, 2019 HU19FEHORVX113A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Marcela, O.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Slovakia, 2020 SK20FETRZAW263A UKSUP Bratislava GEP y not published	N	ADAMA Agriculture
KCP 6.2	Marcela, O.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Slovakia, 2020 SK20FEHORVS266A UKSUP Bratislava GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Marecková, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Slovakia, 2019 SK19FETRZAW301A NPPC VURV Piestany GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in (Germany), 2019 DE19FETRZAW200B Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (Germany), 2019 DE19FETRZAW201C Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in (Germany), 2019 DE19FETRZAW229A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW202D Martin GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2019 DE19FETRZAW203C Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW207C Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW232A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2019 DE19FEHORVW233B Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209D Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211D Martin GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in (Germany), 2019 DE19FETTLSS212B Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2020 DE20FEHORVW254A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Martin, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in (Germany), 2020 DE20FEAVESA260A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.2	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253E BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2020 DE20FETRZAW252B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Germany), 2020 DE20FETTLSS258B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in (Germany), 2020	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			DE20FETTLSS259B BioChem Agrar GEP y not published		Agriculture
KCP 6.2	Nagy, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120C Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Nagy, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW114A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Németh, S.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Hungary in 2018. HU18FETRZAW121B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Németh, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW111A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Németh, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW110A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Németh, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Syntech HU GEP y not published		
KCP 6.2	Németh, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX110A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Németh, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX201A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Németh, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Hungary, 2019 HU19FEBRSNW200B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Packwood, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Ireland, 2020 IE20FETRZAW534A_S20-03183-01 Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.2	Packwood, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in UK, 2020 UK20FETRZAW534B_S20-03187-01 Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.2	Packwood, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Ireland, 2020	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			IE20FEHORVW537B_S20-03188-01 Eurofins Agroscience GEP y not published		
KCP 6.2	Pawlak, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW285A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW286B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW286C Staphyt Poland GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW420A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW420B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Fusarium Head blight (at T3) on winter wheat in Poland, 2019 PL19FETRZAW288A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Fusarium Head blight (at T3) on winter wheat in Poland, 2019 PL19FETRZAW288B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2019 PL19FESECSS292C Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296C Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL19FEBRSNW296D Staphyt Poland GEP y not published		Agriculture
KCP 6.2	Pawlak, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2020 PL20FETRZAW033B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Poland, 2020 PL20FETRZAW035A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Pawlak, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2020 PL20FESECSS039B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.2	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913D U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.2	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915D U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.2	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914C U.A.S. Jena GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916D U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.2	Perner, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in (Germany), 2019 DE19FETRZAW200A U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.2	Perner, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208B U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.2	Perner, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211C U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.2	Raue, C.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW232B SynTech DE GEP y not published	N	ADAMA Agriculture
KCP 6.2	Raue, C.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in (Germany), 2019 DE19FEHORVW205C Syntech DE GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Raue, C.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW234B SynTech DE GEP y not published	N	ADAMA Agriculture
KCP 6.2	Raue, C.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209E Syntech DE GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rivet, J.; Crepin, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Alternaria on oilseed rape in France, 2020 FR20FEBRSNN301A Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916A Agrartest	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Germany in 2018. DE18FEBRSNW918A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in (Germany), 2019 DE19FETRZAW204A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW230A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in (Germany), 2019 DE19FETRZAW231A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW234A Trial-Tec GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.2	Rohr, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2020	Efficacy evaluation of different ADM.3500.F formulations for the control of Septoria tritici (SEPTTR) on winter wheat in (Germany), 2020 DE20FETRZAW262C Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253D Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2020 DE20FETRZAW252A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2020 DE20FEHORVW254B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Germany), 2020 DE20FESECSS256A Trial-Tec	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.2	Rusek, K.	2013	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on rye in Poland, 2019 PL19FESECSS293B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (DTR) on winter wheat in Poland, 2019 PL19FETRZAW418A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (DTR) on winter wheat in Poland, 2019 PL19FETRZAW418B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Pyrenophora teres (PYRNTE) on barley in Poland, 2019 PL19FEHORVW289A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Pyrenophora teres (PYRNTE) on barley in Poland, 2019 PL19FEHORVW289B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL19FEHORVW291A Fertico GEP y not published		
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW291B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on rye in Poland, 2019 PL19FESECSS293A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2019 PL19FESECSS292A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2019 PL19FESECSS292B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2019 PL19FETTLSS294A Fertico GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2019 PL19FETTLSS294B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown Rust (PUCCRE) on Triticale in Poland, 2019 PL19FETTLSS295A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown Rust (PUCCRE) on Triticale in Poland, 2019 PL19FETTLSS295B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2020 PL20FETRZAW032A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2020 PL20FETRZAW031B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2020 PL20FEHORVW037A Fertico GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley inPoland, 2020 PL20FEHORVW036A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley inPoland 2020 PL20FEHORVW038B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2020 PL20FESECSS039C Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2020 PL20FETTLSS040B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.2	Ruzicka, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the Czech republic, 2020 CZ20FESECCW257B ZS Rýmarov GEP y not published	N	ADAMA Agriculture
KCP 6.2	Ruzicka, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech republic, 2020 CZ20FETTLWI259B ZS Rýmarov GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Poland in 2018. PL18FETRZAW064A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Poznan University GEP y not published		
KCP 6.2	Sawinska, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Poland in 2018. PL18FETRZAW064B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW285B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW285C Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW286A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW417A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL19FETRZAW417B Poznan University GEP y not published		
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Poland, 2019 PL19FEHORVW423A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Poland, 2019 PL19FEHORVW423B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in Poland, 2019 PL19FETTLSS425A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in Poland, 2019 PL19FETTLSS425B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in Poland, 2019 PL19FETTLSS428A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in Poland, 2019 PL19FETTLSS428B Poznan University GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2020 PL20FETRZAW032B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2020 PL20FETRZAW034B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2020 PL20FETRZAW033A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2020 PL20FEHORVW037B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2020 PL20FETTLSS040A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW113B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW110C	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			SGS Hungary GEP y not published		
KCP 6.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204C SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Hungary, 2019 HU19FETRZAW112B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Hungary, 2019 HU19FETRZAW205B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX110B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX112B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Hungary, 2019 HU19FEHORVX113B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			SGS Hungary GEP y not published		
KCP 6.2	Somody, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW202B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Somody, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Hungary, 2019 HU19FETRZAW200B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Somody, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW203B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Subr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVW922B ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.2	Subr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW301A ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.2	Subr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech Republic, 2019 CZ19FEHORVS234A ZS Trutnov	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.2	Subr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255C ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Subr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in the Czech republic, 2020 CZ20FESECCW256B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.2	Toth, F.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Slovakia in 2018. SK18FEHORVW922A GEMERPRODUKT GEP y not published	N	ADAMA Agriculture
KCP 6.2	Toth, F.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2020 SK20FETRZAW252B GEMERPRODUKT GEP y not published	N	ADAMA Agriculture
KCP 6.2	Trnka, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the Czech republic, 2020 CZ20FESECCW257A Agricultural Office of Baranya County GEP y not published	N	ADAMA Agriculture
KCP 6.2	Trnka, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech republic, 2020 CZ20FETTLWI258B Agricultural Office of Baranya County	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.2	Tuna, V.	2020	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in ROMANIA, 2019 RO19FETTLSS159A EAS Romania GEP y not published	N	ADAMA Agriculture
KCP 6.2	Tuna, V.	2020	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in ROMANIA, 2019 RO19FETTLSS162A EAS Romania GEP y not published	N	ADAMA Agriculture
KCP 6.2	Tvaruzek, L.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVX922C ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.2	Tvaruzek, L.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW200B ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.2	Tvaruzek, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech Republic, 2019 CZ19FETTLSS237A ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.2	Tvaruzek, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech Republic, 2019 CZ19FETTLSS238B ZVU Kromeriz	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.2	Vadász, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Hungary in 2018. HU18FEHORVW125A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Vadász, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW201B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW110B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX112A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX200B Syntech HU GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Hungary, 2019 HU19FEBRSNW200A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Varga, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Hungary in 2018. HU18FETRZAW121A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Varga, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Hungary in 2018. HU18FEHORVW124B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Varga, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW201A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Hungary, 2019 HU19FETRZAW200A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Hungary, 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			HU19FETRZAW205A Syntech HU GEP y not published		
KCP 6.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX201B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX200A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.2	Varret, F.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia sclerotiorum (SCLESC) on oilseed rape, in France 2020 FR20FEBRSNN300A STAPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2	Von Hörsten, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW207D FRS Wunstorf GEP y not published	N	ADAMA Agriculture
KCP 6.2	Wied, H.M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Austria), 2019 AT19FETRZAW230A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.2	Wied, H.M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Austria), 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			AT19FESECSS236A Staphyt AT GEP y not published		
KCP 6.2	Wied, H.M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Austria), 2019 AT19FESECSS235B Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.2	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Austria), 2020 AT20FESECSS256A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.2	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Austria), 2020 AT20FESECSS256B Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.2	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Austria), 2020 AT20FETTLSS258A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.2	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Austria), 2020 AT20FETTLSS258B Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.2	Wolf, P.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917D Agricola GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Wöllmann, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208C_2(AC-19-097) agro-check GEP y not published	N	ADAMA Agriculture
KCP 6.2	Wöllmann, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in (Germany), 2019 DE19FETRZAW229B(AC-19-098) agro-check GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW202A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (Germany), 2019 DE19FETRZAW201A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW207A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in (Germany), 2019 DE19FEHORVW205A BioChem Agrar GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208D BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in (Germany), 2019 DE19FETTLSS215A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zickart, U.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in (Germany), 2019 DE19FETTLSS238A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zöllner, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in (Germany), 2019 DE19FETTLSS238B FRS Wunstorf GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zöllner, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in (Germany), 2020 DE20FEAVESA260C	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			FRS Wunstorf GEP y not published		
KCP 6.2	Zsuzsanna, H.P.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW114B Növénypathyka GEP y not published	N	ADAMA Agriculture
KCP 6.2	Zsuzsanna, H.P.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW111B Növénypathyka GEP y not published	N	ADAMA Agriculture
KCP 6.3	Anomynous	2020	FRAC Code List 2020: Fungal control agents sorted by cross resistance pattern and mode of action (including FRAC Code numbering). available in the internet in Nov. 2020 under http://www.frac.info published	N	-
KCP 6.3	Anomynous	2020	FRAC Pathogen List 2019. available in the internet in Nov. 2020 under http://www.frac.info published	N	-
KCP 6.3	Felsenstein, F.G., Jaser,B.	2016	RESEARCH REPORT: Sensitivity of Septoria tritici in different regions of Europe towards prochloraz, tebuconazole, difenoconazole, propiconazole, and prothioconazole 2016. EpiLogic GmbH Agrobiol. Research and Consulting, Hohenbachernstr. 19-21, D-85354 Freising-Weihenstephan not published	N	ADAMA Agriculture
KCP 6.3	Felsenstein, F.G., Jaser,B.	2017	RESEARCH REPORT: Sensitivity of Septoria tritici in different regions of Europe towards prochloraz, tebuconazole, difenoconazole and prothioconazole 2017. EpiLogic GmbH Agrobiol. Research and Consulting, Hohenbachernstr. 19-21, D-85354 Freising-Weihenstephan not published	N	ADAMA Agriculture
KCP 6.3	Felsenstein, F.G., Jaser,B.	2018	RESEARCH REPORT: Sensitivity of Septoria tritici in different regions of Europe towards prochloraz, tebuconazole, difenoconazole and prothioconazole 2018. EpiLogic GmbH Agrobiol. Research and Consulting, Hohenbachernstr. 19-21, D-85354 Freising-Weihenstephan not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.3	Felsenstein, F.G.; Jaser, B.	2007	Fungizidresistenz bei pilzlichen Getreidepathogenen und Wirksamkeit der vertikalen (qualitativen) Mehltauresistenz bei Weizen und Gerste – Situationsbericht 2007. available in the internet in Nov. 2020 under http://www.epilogic.de published	N	-
KCP 6.3	FRAC SBI Working Group	2020	Minutes from Annual Meeting on January 24th, 2020, updated on September 23rd available on the internet in Nov. 2020 under http://www.frac.info published	N	-
KCP 6.3	Heick T.M., Matzen N., Jørgensen L.N.	2020	Reduced field efficacy and sensitivity of demethylation inhibitors in the Danish and Swedish Zymoseptoria tritici populations. Eur. J. Plant Pathol. 157, 625–636; 2020 published	N	-
KCP 6.3	Heimbach U., Kral G., Niemann P.	2000	Implementation of resistance risk analysis of plant protection products in the German authorization procedure: Proceedings of the Brighton Crop Protection Conference - Pests and Diseases, pp 771-776, 2000 published	N	-
KCP 6.3	Leroux P., Walker A.S., Albertini C., Gredt M,	2006	Resistance to fungicides in European populations of Septoria tritici, the causal agent of wheat leaf blotch. Analysis of populations sent by MAKHTESHIM AGAN in 2006. INRA, Unité de Phytopharmacie et Médiateurs Chimiques 78026 Versailles Cedex, 2006; not published yet	N	-
KCP 6.4.1	Abts, K.	2019	Determination of Efficacy of ADM.3500.F.2.B against Crown rust (PUCCCO) in oats. Belgium, 2019. BE19FEAVESA043C EAS Belgium GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Armstrong, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow Rust (PUCCST) on winter wheat in the UK, 2019 UK19FETRZAW509A Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Armstrong, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow Rust (PUCCST) on winter wheat in the UK, 2019 UK19FETRZAW509B Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Armstrong, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in UK, 2020 UK20FETRZAW531B Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Armstrong, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in UK, 2020 UK20FETRZAW532B Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2020 HU20FETRZAW212A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2020 HU20FETRZAW212B CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211B CPR Europe Kft. GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211C CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211D CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2020 HU20FETRZAW210A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2020 HU20FEHORVW221A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Hungary, 2020 HU20FEHORVW220A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Hungary, 2020 HU20FEHORVW220B CPR Europe Kft. GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Bauer, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech republic, 2020 CZ20FETRZAW251C InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Bauer, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255D InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in ROMANIA, 2019 RO19FETRZAW151A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in ROMANIA, 2019 RO19FETRZAW151B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in ROMANIA, 2019 RO19FETRZAW153A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in ROMANIA, 2019 RO19FETRZAW153B-RO02 AgroProspect SRL GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in ROMANIA, 2019 RO19FETRZAW152A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in ROMANIA, 2019 RO19FETRZAW152B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (country), 2019 RO19FETRZAW150A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (country), 2019 RO19FETRZAW150B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in ROMANIA, 2019 RO19FETRZAW154A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in ROMANIA, 2019 RO19FETRZAW154B-RO02	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			AgroProspect SRL GEP y not published		
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in ROMANIA, 2019 RO19FEHORVW156A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in ROMANIA, 2019 RO19FEHORVW156B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in ROMANIA, 2019 RO19FEHORVW155A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in ROMANIA, 2019. RO19FEHORVW155B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in ROMANIA, 2019 RO19FETTLSS157A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in ROMANIA,	N	ADAMA

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			2019 RO19FETTLSS157B-RO02 AgroProspect SRL GEP y not published		Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in ROMANIA, 2019 RO19FETTLSS158A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in ROMANIA, 2019 RO19FETTLSS158B AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Romania, 2020 RO20FETRZAW217A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Romania, 2020 RO20FETRZAW217B AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in ROMANIA, 2020 RO20FETRZAW218A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in ROMANIA, 2020 RO20FEHORVW216A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			AgroProspect SRL GEP y not published		
KCP 6.4.1	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Romania, 2020 RO20FETTLSS219AA AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Romania, 2020 RO20FETTLSS219AB AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in Romania, 2020 RO20FETTLSS220A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in Romania, 2020 RO20FETTLSS220B AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Hungary in 2018. HU18FETRZAW122B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Hungary in 2018. HU18FEHORVW124A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Hungary in 2018.	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			HU18FEHORVW125B Syntech HU GEP y not published		Agriculture
KCP 6.4.1	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120D Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Brodala, M	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW290C Eurofins Agrosciensce Services Sp. z o.o. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Brož, M.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in the Czech Republic, 2019 CZ19FETTLSS212A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech republic, 2020 CZ20FETRZAW251A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in the Czech	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			republic, 2020 CZ20FESECCW256A ZZS Kujavy GEP y not published		Agriculture
KCP 6.4.1	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech republic, 2020 CZ20FETTLWI258A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVX922D ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVX922A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW200A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in the CZech Republic, 2019 CZ19FETRZAW203A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in the	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Czech Republic, 2019 CZ19FEHORVW205B ZS Nechanice GEP y not published		Agriculture
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in the Czech Republic, 2019 CZ19FEHORVS207A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in the Czech Republic, 2019 CZ19FETTLWI212B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in the Czech Republic, 2019 CZ19FETTLWI215A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech Republic, 2019 CZ19FETTLWI238A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia c. (PUCCCO) on oat in the Czech Republic, 2019 CZ19FEAVESA216A ZS Nechanice GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia c. (PUCCCO) on oat in the Czech Republic, 2019 CZ19FEAVESA216B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in the Czech republic, 2019 CZ19FEBRSNW305B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2020	Efficacy evaluation of different ADM.3500.F formulations for the control of Septoria tritici (SEPTTR) on winter wheat in ther Czech republic, 2020 CZ20FETRZAW262B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the Czech republic, 2020 CZ20FESECCW257C ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Cáp, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech republic, 2020 CZ20FETTLWI259A ZS Nechanice GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Dana, P.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in the Czech republic, 2019 CZ19FEBRSNW305A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Deirdre, D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in IRELAND, 2019 IE19FETRZAW517B Teagasc GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Doyle, D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in IRELAND, 2019 IE19FEHORVW516C Teagasc GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Endres, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Endres, U.	2019	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Endres, U.	2019	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in UK, 2020 UK20FEHORVW533A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			OAT, Oxford GEP y not published		
KCP 6.4.1	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in UK, 2020 UK20FEHORVW533B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRR) on rye in UK, 2020 UK20FESECSS535A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRR) on rye in UK, 2020 UK20FESECSS535B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Alternaria on oilseed rape in UK, 2020 UK20FEBRSNW536A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Furman-Fratczak, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Furman-Fratczak, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Blumeria graminis tritici (ERYSGT) on	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			winter wheat in Poland, 2019 PL19FETRZAW284B_ AGRECO SP. Z O.O. GEP y not published		Agriculture
KCP 6.4.1	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW287A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW287B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW284A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Fusarium Head blight (at T3) on winter wheat in Poland, 2019 PL19FETRZAW288C AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW290A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW290B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Gajek, D.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on rye in Poland, 2019 PL19FESECSS293C Eurofins Austria GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Gajek, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2020 PL20FETRZAW034A Agro Research Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Gajek, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2020 PL20FESECSS039A Agro Research Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Gezova, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW230A InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Gezova, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW231B InTec Agro GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Gezova, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech Republic, 2019 CZ19FEHORVS234B InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Gezova, V.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in the Czech Republic, 2019 CZ19FEHORVW207B InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hetterich, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2019 DE19FETRZAW203B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hetterich, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW230B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hetterich, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW202B Hetterich Fieldworks GEP n not published	N	ADAMA Agriculture
KCP 6.4.1	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in IRELAND, 2019 IE19FETRZAW517A Eurofins Agroscience GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.1	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat IRELAND UK, 2019 IE19FETRZAW518A ADAMA Makhteshim Ltd GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the UK, 2019 UK19FETRZAW510B Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in IRELAND, 2019 IE19FEHORVW516A Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in IRELAND, 2019 IE19FEHORVW516B Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Holcikova,D.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Slovakia in 2018. SK18FEHORVW922B Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Slovakia, 2019 SK19FETRZAW229A Fyse GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.1	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Slovakia, 2019 SK19FETRZAW301B Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2019 SK19FETRZAW302A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Slovakia, 2019 SK19FEHORVW303B Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Slovakia, 2019 SK19FEHORVW232A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Holcikova,D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2020 SK20FETRZAW252A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Holcikova,D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Slovakia, 2020 SK20FEHORVW267A Fyse GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Hrabovský, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW201A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hrabovský, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW230B ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hrabovský, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW301B ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hrabovský, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech Republic, 2019 CZ19FETTLSS237B ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hruška, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW201B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hruška, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW203B ZS Nechanice GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.1	Hruška, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRE) on triticale in the Czech Republic, 2019 CZ19FETTLWI215B ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Slovakia, 2019 SK19FETRZAW300A Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Slovakia, 2019 SK19FETRZAW300B Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Slovakia, 2019 SK19FETRZAW231A Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Slovakia, 2019 SK19FETRZAW231B Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Hudec, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Slovakia, 2020 SK20FETRZAW265B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Blumeria Consulting GEP y not published		
KCP 6.4.1	Hudec, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Slovakia, 2020 SK20FEHORVW266B Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Izsányi, L.I.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis and Zymoseptoria tritici on wheat, in Hungary in 2018. HU18FETRZAW122A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Izsányi, L.I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Hungary, 2019 HU19FEBRSNW200C Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Joynt, R.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the UK, 2019 UK19FETRZAW510A ADAS GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Joynt, R.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in UK, 2020 UK20FETRZAW534A RSK ADAS Ltd GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Slovakia, 2019 SK19FETRZAW229B BERBERIS s.r.o.	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.1	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2019 SK19FETRZAW302B BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Slovakia, 2019 SK19FEHORVW303A BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Slovakia, 2019 SK19FEBRSNW305A BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Slovakia, 2019 SK19FEBRSNW305B BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kay, C.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the UK, 2019 UK19FESECCW513A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in the UK, 2019 UK19FETRZAW508A OAT, Oxford GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.1	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in the UK, 2019 UK19FETRZAW508B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in the UK, 2019 UK19FEHORVW511A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in the UK, 2019 UK19FEHORVW511B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the UK, 2019 UK19FEHORVW512B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the UK, 2019 UK19FEHORVW512A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kohrman, E.J.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in The Netherlands 2020 NL20FEAVESA014A Cultus GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Kohrman, E.J.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in The Netherlands 2020 NL20FEAVESA014B Cultus GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Konvalinkova, J.	2020	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in the Czech Republic, 2019 CZ19FEHORVW205A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253C Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2020 DE20FEHORVW255A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2020 DE20FESECSS257A Trial-Tec GEP y not published	N	ADAMA Agriculture

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KCP 6.4.1	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in (Germany), 2020 DE20FEAVESA260B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kovacova, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Slovakia, 2020 SK20FEHORVW254A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065C AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065D AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW416A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW416B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW419A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW419B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW421A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW421B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW424A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW424B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2020	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL20FETRZAW031A AGRECO SP. Z O.O. GEP y not published		
KCP 6.4.1	Kukula, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley inPoland, 2020 PL20FEHORVW036B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Kukula, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in Poland 2020 PL20FEHORVW038A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914D BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916B BioChem Agrar GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Germany in 2018. DE18FEBRSNW918C BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Labusch, U.	2019	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Germany in 2018. DE18FEBRSNW918B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Labusch, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2019 DE19FETRZAW203A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Labusch, U.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2019 DE19FEHORVW233C BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Laug, S.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Laug, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Germany), 2019 DE19FETTLSS237B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Hetterich Fieldworks GEP y not published		
KCP 6.4.1	Magyar, B.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204D Fructika GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211E Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS236B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Germany), 2019 DE19FESECSS235A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in (Germany), 2019 DE19FETTLSS215C Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253F	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Agrartest GEP y not published		
KCP 6.4.1	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2020 DE20FEHORVW254D Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2020 DE20FEHORVW255B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Germany), 2020 DE20FESECSS256B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2020 DE20FESECSS257B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2020 DE20FESECSS257C Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Makó, I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Syntech HU GEP y not published		
KCP 6.4.1	Makó, I.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW113A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Makó, I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW203A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Makó, I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW202A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Makó, I.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Hungary, 2019 HU19FEHORVX113A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Marcela, O.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Slovakia, 2020 SK20FETRZAW263A UKSUP Bratislava GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Marcela, O.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Slovakia, 2020 SK20FEHORVS266A UKSUP Bratislava GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Marecková, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Slovakia, 2019 SK19FETRZAW301A NPPC VURV Piestany GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in (Germany), 2019 DE19FETRZAW200B Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (Germany), 2019 DE19FETRZAW201C Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in (Germany), 2019 DE19FETRZAW229A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW202D Martin GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2019 DE19FETRZAW203C Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW207C Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW232A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2019 DE19FEHORVW233B Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209D Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211D Martin GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in (Germany), 2019 DE19FETTLSS212B Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2020 DE20FEHORVW254A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Martin, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in (Germany), 2020 DE20FEAVESA260A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253E BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2020 DE20FETRZAW252B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Germany), 2020 DE20FETTLSS258B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in (Germany), 2020	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			DE20FETTLSS259B BioChem Agrar GEP y not published		Agriculture
KCP 6.4.1	Nagy, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120C Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Nagy, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW114A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Németh, S.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Hungary in 2018. HU18FETRZAW121B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Németh, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW111A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Németh, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW110A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Németh, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Syntech HU GEP y not published		
KCP 6.4.1	Németh, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX110A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Németh, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX201A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Németh, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Hungary, 2019 HU19FEBRSNW200B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Packwood, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Ireland, 2020 IE20FETRZAW534A_S20-03183-01 Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Packwood, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in UK, 2020 UK20FETRZAW534B_S20-03187-01 Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Packwood, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Ireland, 2020	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			IE20FEHORVW537B_S20-03188-01 Eurofins Agroscience GEP y not published		
KCP 6.4.1	Pawlak, A	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2019 PL19FESECSS292C Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW285A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW286B Staphyt Poland GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW286C Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW420A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW420B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Fusarium Head blight (at T3) on winter wheat in Poland, 2019 PL19FETRZAW288A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Fusarium Head blight (at T3) on winter wheat in Poland, 2019 PL19FETRZAW288B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296C Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL19FEBRSNW296D Staphyt Poland GEP y not published		Agriculture
KCP 6.4.1	Pawlak, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2020 PL20FETRZAW033B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Poland, 2020 PL20FETRZAW035A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Pawlak, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2020 PL20FESECSS039B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913D U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915D U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914C U.A.S. Jena GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.1	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916D U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Perner, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in (Germany), 2019 DE19FETRZAW200A U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Perner, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208B U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Perner, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211C U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Raue, C.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW232B SynTech DE GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Raue, C.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in (Germany), 2019 DE19FEHORVW205C Syntech DE GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Raue, C.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW234B SynTech DE GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Raue, C.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209E Syntech DE GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Germany in 2018. DE18FEBRSNW918A Agrartest	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.1	Rohr, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in (Germany), 2019 DE19FETRZAW204A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW230A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in (Germany), 2019 DE19FETRZAW231A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW234A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209B Trial-Tec	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.1	Rohr, J.	2020	Efficacy evaluation of different ADM.3500.F formulations for the control of Septoria tritici (SEPTTR) on winter wheat in (Germany), 2020 DE20FETRZAW262C Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253D Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2020 DE20FETRZAW252A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2020 DE20FEHORVW254B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Germany), 2020 DE20FESECSS256A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2013	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on rye in Poland, 2019 PL19FESECSS293B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Fertico GEP y not published		
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (DTR) on winter wheat in Poland, 2019 PL19FETRZAW418A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (DTR) on winter wheat in Poland, 2019 PL19FETRZAW418B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Pyrenophora teres (PYRNTE) on barley in Poland, 2019 PL19FEHORVW289A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Pyrenophora teres (PYRNTE) on barley in Poland, 2019 PL19FEHORVW289B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW291A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia hordei (PUCCHD) on barley in	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Poland, 2019 PL19FEHORVW291B Fertico GEP y not published		Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on rye in Poland, 2019 PL19FESECSS293A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2019 PL19FESECSS292A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2019 PL19FESECSS292B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2019 PL19FETTLSS294A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2019 PL19FETTLSS294B Fertico GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown Rust (PUCCRE) on Triticale in Poland, 2019 PL19FETTLSS295A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown Rust (PUCCRE) on Triticale in Poland, 2019 PL19FETTLSS295B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2020 PL20FETRZAW032A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2020 PL20FETRZAW031B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2020 PL20FEHORVW037A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley inPoland, 2020 PL20FEHORVW036A Fertico GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley inPoland 2020 PL20FEHORVW038B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2020 PL20FESECSS039C Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2020 PL20FETTLSS040B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Ruzicka, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the Czech republic, 2020 CZ20FESECCW257B ZS Rýmarov GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Ruzicka, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech republic, 2020 CZ20FETTLWI259B ZS Rýmarov GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Poland in 2018. PL18FETRZAW064B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Poland in 2018. PL18FETRZAW064A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Poznan University GEP y not published		
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW285B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW285C Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW286A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW417A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW417B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Poland, 2019	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL19FEHORVW423A Poznan University GEP y not published		Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Poland, 2019 PL19FEHORVW423B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in Poland, 2019 PL19FETTLSS425A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in Poland, 2019 PL19FETTLSS425B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in Poland, 2019 PL19FETTLSS428A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in Poland, 2019 PL19FETTLSS428B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2020 PL20FETRZAW032B Poznan University GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2020 PL20FETRZAW034B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2020 PL20FETRZAW033A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2020 PL20FEHORVW037B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2020 PL20FETTLSS040A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW113B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW110C SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			HU19FETRZAW204C SGS Hungary GEP y not published		
KCP 6.4.1	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Hungary, 2019 HU19FETRZAW112B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Hungary, 2019 HU19FETRZAW205B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX110B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX112B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Hungary, 2019 HU19FEHORVX113B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Somody, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW202B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Syntech HU GEP y not published		
KCP 6.4.1	Somody, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Hungary, 2019 HU19FETRZAW200B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Somody, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW203B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Subr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVW922B ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Subr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW301A ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Subr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech Republic, 2019 CZ19FEHORVS234A ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Subr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255C	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			ZS Nechanice GEP y not published		
KCP 6.4.1	Subr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in the Czech republic, 2020 CZ20FESECCW256B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Toth, F.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Slovakia in 2018. SK18FEHORVW922A GEMERPRODUKT GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Toth, F.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2020 SK20FETRZAW252B GEMERPRODUKT GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Trnka, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the Czech republic, 2020 CZ20FESECCW257A Agricultural Office of Baranya County GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Trnka, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech republic, 2020 CZ20FETTLWI258B Agricultural Office of Baranya County GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Tuna, V.	2020	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in ROMANIA, 2019 RO19FETTLSS159A EAS Romania	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.1	Tuna, V.	2020	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in ROMANIA, 2019 RO19FETTLSS162A EAS Romania GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Tvaruzek, L.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVX922C ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Tvaruzek, L.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW200B ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Tvaruzek, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech Republic, 2019 CZ19FETTLSS237A ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Tvaruzek, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech Republic, 2019 CZ19FETTLSS238B ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Vadász, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Hungary in 2018. HU18FEHORVW125A Syntech HU	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.1	Vadász, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Vadász, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW201B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Vadász, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW110B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Vadász, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX112A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Vadász, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX200B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Vadász, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Hungary, 2019 HU19FEBRSNW200A Syntech HU GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Varga, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Hungary in 2018. HU18FETRZAW121A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Varga, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Hungary in 2018. HU18FEHORVW124B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Varga, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW201A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Hungary, 2019 HU19FETRZAW200A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Hungary, 2019 HU19FETRZAW205A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Hungary, 2019 HU19FEHORVX201B Syntech HU GEP y not published		Agriculture
KCP 6.4.1	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX200A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Wied, H.M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Austria), 2019 AT19FETRZAW230A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Wied, H.M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Austria), 2019 AT19FESECSS236A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Wied, H.M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Austria), 2019 AT19FESECSS235B Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Austria), 2020 AT20FESECSS256A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Austria), 2020 AT20FESECSS256B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Staphyt AT GEP y not published		
KCP 6.4.1	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Austria), 2020 AT20FETTLSS258A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Austria), 2020 AT20FETTLSS258B Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Wolf, P.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917D Agricola GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Wöllmann, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208C_2(AC-19-097) agro-check GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Wöllmann, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in (Germany), 2019 DE19FETRZAW229B(AC-19-098) agro-check GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW202A BioChem Agrar GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.1	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (Germany), 2019 DE19FETRZAW201A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW207A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in (Germany), 2019 DE19FEHORVW205A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208D BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211A BioChem Agrar GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.1	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in (Germany), 2019 DE19FETTLSS215A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zickart, U.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in (Germany), 2019 DE19FETTLSS238A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zöllner, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in (Germany), 2019 DE19FETTLSS238B FRS Wunstorf GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zöllner, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in (Germany), 2020 DE20FEAVESA260C FRS Wunstorf GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zsuzsanna, H.P.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW114B Növénypathyka GEP y not published	N	ADAMA Agriculture
KCP 6.4.1	Zsuzsanna, H.P.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW111B Növénypathyka GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Abts, K.	2019	Determination of Efficacy of ADM.3500.F.2.B against Crown rust (PUCCCO) in oats. Belgium, 2019. BE19FEAVESA043C	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			EAS Belgium GEP y not published		
KCP 6.4.2	Armstrong, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow Rust (PUCCST) on winter wheat in the UK, 2019 UK19FETRZAW509A Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Armstrong, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow Rust (PUCCST) on winter wheat in the UK, 2019 UK19FETRZAW509B Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Armstrong, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in UK, 2020 UK20FETRZAW531B Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Armstrong, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in UK, 2020 UK20FETRZAW532B Armstrong Fisher Ltd. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2020 HU20FETRZAW212A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2020 HU20FETRZAW212B CPR Europe Kft.	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211B CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211C CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2020 HU20FETRZAW211D CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2020 HU20FETRZAW210A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2020 HU20FEHORVW221A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			CPR Europe Kft. GEP y not published		
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Hungary, 2020 HU20FEHORVW220A CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Barasits, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Hungary, 2020 HU20FEHORVW220B CPR Europe Kft. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Bauer, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech republic, 2020 CZ20FETRZAW251C InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Bauer, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255D InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Bezdíčková, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW231A Ditana GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in ROMANIA,	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			2019 RO19FETRZAW151A-RO01 AgroProspect SRL GEP y not published		Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in ROMANIA, 2019 RO19FETRZAW151B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in ROMANIA, 2019 RO19FETRZAW153A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in ROMANIA, 2019 RO19FETRZAW153B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in ROMANIA, 2019 RO19FETRZAW152A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in ROMANIA, 2019 RO19FETRZAW152B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (country), 2019 RO19FETRZAW150A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (country), 2019 RO19FETRZAW150B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in ROMANIA, 2019 RO19FETRZAW154A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in ROMANIA, 2019 RO19FETRZAW154B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in ROMANIA, 2019 RO19FEHORVW156A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in ROMANIA, 2019 RO19FEHORVW156B-RO02 AgroProspect SRL GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in ROMANIA, 2019 RO19FEHORVW155A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in ROMANIA, 2019. RO19FEHORVW155B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in ROMANIA, 2019 RO19FETTLSS157A-RO01 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in ROMANIA, 2019 RO19FETTLSS157B-RO02 AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in ROMANIA, 2019 RO19FETTLSS158A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in ROMANIA, 2019 RO19FETTLSS158B AgroProspect SRL GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Romania, 2020 RO20FETRZAW217A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Romania, 2020 RO20FETRZAW217B AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in ROMANIA, 2020 RO20FETRZAW218A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in ROMANIA, 2020 RO20FEHORVW216A AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Romania, 2020 RO20FETTLSS219AA AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Romania, 2020 RO20FETTLSS219AB AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in Romania, 2020	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			RO20FETTLSS220A AgroProspect SRL GEP y not published		Agriculture
KCP 6.4.2	Botoman, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in Romania, 2020 RO20FETTLSS220B AgroProspect SRL GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Hungary in 2018. HU18FETRZAW122B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Hungary in 2018. HU18FEHORVW124A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Hungary in 2018. HU18FEHORVW125B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Botos, I.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120D Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Brodala, M	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW290C Eurofins Agrosciensce Services Sp. z o.o. GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Brož, M.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in the Czech Republic, 2019 CZ19FETTLSS212A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech republic, 2020 CZ20FETRZAW251A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in the Czech republic, 2020 CZ20FESECCW256A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Brož, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech republic, 2020 CZ20FETTLWI258A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVX922D ZS Nechanice	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.2	Cáp, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVX922A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW200A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in the CZech Republic, 2019 CZ19FETRZAW203A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in the Czech Republic, 2019 CZ19FEHORVW205B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in the Czech Republic, 2019 CZ19FEHORVS207A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in the Czech Republic, 2019 CZ19FETTLWI212B	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			ZS Nechanice GEP y not published		
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in the Czech Republic, 2019 CZ19FETTLWI215A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech Republic, 2019 CZ19FETTLWI238A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia c. (PUCCCO) on oat in the Czech Republic, 2019 CZ19FEAVESA216A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia c. (PUCCCO) on oat in the Czech Republic, 2019 CZ19FEAVESA216B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in the Czech republic, 2019 CZ19FEBRSNW305B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2020	Efficacy evaluation of different ADM.3500.F formulations for the control of Septoria tritici (SEPTTR) on winter wheat in ther Czech republic, 2020	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			CZ20FETRZAW262B ZS Nechanice GEP y not published		
KCP 6.4.2	Cáp, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the Czech republic, 2020 CZ20FESECCW257C ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Cáp, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech republic, 2020 CZ20FETTLWI259A ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Dana, P.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in the Czech republic, 2019 CZ19FEBRSNW305A ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Deirdre, D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in IRELAND, 2019 IE19FETRZAW517B Teagasc GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Doyle, D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			IRELAND, 2019 IE19FEHORVW516C Teagasc GEP y not published		Agriculture
KCP 6.4.2	Endres, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Endres, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Endres, U.	2019	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Endres, U.	2019	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915C Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in UK, 2020 UK20FEHORVW533A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in UK, 2020 UK20FEHORVW533B OAT, Oxford GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRR) on rye in UK, 2020 UK20FESECSS535A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRR) on rye in UK, 2020 UK20FESECSS535B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Erb, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Alternaria on oilseed rape in UK, 2020 UK20FEBRSNW536A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Furman-Fratczak, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Furman-Fratczak, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW284B_ AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL19FETRZAW287A AGRECO SP. Z O.O. GEP y not published		
KCP 6.4.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW287B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW284A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Fusarium Head blight (at T3) on winter wheat in Poland, 2019 PL19FETRZAW288C AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW290A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Furman-Fratczak, K.	2020	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW290B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Gajek, D.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on rye in Poland, 2019 PL19FESECSS293C Eurofins Austria GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Gajek, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2020 PL20FETRZAW034A Agro Research Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Gajek, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2020 PL20FESECSS039A Agro Research Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Gezova, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW230A InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Gezova, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW231B InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Gezova, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech Republic, 2019 CZ19FEHORVS234B InTec Agro GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Gezova, V.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in the Czech Republic, 2019 CZ19FEHORVW207B InTec Agro GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hetterich, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2019 DE19FETRZAW203B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hetterich, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW230B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hetterich, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW202B Hetterich Fieldworks GEP n not published	N	ADAMA Agriculture
KCP 6.4.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in IRELAND, 2019 IE19FETRZAW517A Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat IRELAND UK, 2019 IE19FETRZAW518A ADAMA Makhteshim Ltd GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	**Title** **Company Report No.** **Source (where different from company)** **GLP or GEP status** **Published or not**	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the UK, 2019 UK19FETRZAW510B Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in IRELAND, 2019 IE19FEHORVW516A Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hill, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in IRELAND, 2019 IE19FEHORVW516B Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Holcikova,D.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Slovakia in 2018. SK18FEHORVW922B Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Slovakia, 2019 SK19FETRZAW229A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Slovakia, 2019 SK19FETRZAW301B Fyse GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2019 SK19FETRZAW302A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Slovakia, 2019 SK19FEHORVW303B Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Holcikova,D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Slovakia, 2019 SK19FEHORVW232A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Holcikova,D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2020 SK20FETRZAW252A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Holcikova,D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Slovakia, 2020 SK20FEHORVW267A Fyse GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hrabovský, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW201A ZZS Kujavy GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Hrabovský, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW230B ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hrabovský, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW301B ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hrabovský, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech Republic, 2019 CZ19FETTLSS237B ZZS Kujavy GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hruška, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW201B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hruška, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW203B ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hruška, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRE) on triticale in the Czech Republic, 2019 CZ19FETTLWI215B ZS Trutnov GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Slovakia, 2019 SK19FETRZAW300A Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Slovakia, 2019 SK19FETRZAW300B Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Slovakia, 2019 SK19FETRZAW231A Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hudec, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Slovakia, 2019 SK19FETRZAW231B Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hudec, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Slovakia, 2020 SK20FETRZAW265B Blumeria Consulting GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Hudec, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Slovakia, 2020 SK20FEHORVW266B Blumeria Consulting	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.2	Izsányi, L.I.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis and Zymoseptoria tritici on wheat, in Hungary in 2018. HU18FETRZAW122A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Izsányi, L.I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Hungary, 2019 HU19FEBRSNW200C Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Joynt, R.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in the UK, 2019 UK19FETRZAW510A ADAS GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Joynt, R.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in UK, 2020 UK20FETRZAW534A RSK ADAS Ltd GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Slovakia, 2019 SK19FETRZAW229B BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2019 SK19FETRZAW302B BERBERIS s.r.o. GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Slovakia, 2019 SK19FEHORVW303A BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Slovakia, 2019 SK19FEBRSNW305A BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Jozefiak, D	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Slovakia, 2019 SK19FEBRSNW305B BERBERIS s.r.o. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kay, C.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the UK, 2019 UK19FESECCW513A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in the UK, 2019 UK19FETRZAW508A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in the UK, 2019 UK19FETRZAW508B OAT, Oxford GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in the UK, 2019 UK19FEHORVW511A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in the UK, 2019 UK19FEHORVW511B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the UK, 2019 UK19FEHORVW512B OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kay, C.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the UK, 2019 UK19FEHORVW512A OAT, Oxford GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kohrman, E.J.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in The Netherlands 2020 NL20FEAVESA014A Cultus GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kohrman, E.J.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in The Netherlands 2020 NL20FEAVESA014B Cultus GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Konvalinkova, J.	2020	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in the	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Czech Republic, 2019 CZ19FEHORVW205A ZS Nechanice GEP y not published		Agriculture
KCP 6.4.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253C Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2020 DE20FEHORVW255A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2020 DE20FESECSS257A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Korporal, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in (Germany), 2020 DE20FEAVESA260B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kovacova, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Slovakia,	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			2020 SK20FEHORVW254A Fyse GEP y not published		Agriculture
KCP 6.4.2	Kukula, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065C AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065D AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW416A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW416B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW419A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2019 PL19FETRZAW419B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW421A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2019 PL19FEHORVW421B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW424A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW424B AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2020 PL20FETRZAW031A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Kukula, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley inPoland, 2020	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL20FEHORVW036B AGRECO SP. Z O.O. GEP y not published		Agriculture
KCP 6.4.2	Kukula, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in Poland 2020 PL20FEHORVW038A AGRECO SP. Z O.O. GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914D BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917B BioChem Agrar GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Labusch, U.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Germany in 2018. DE18FEBRSNW918C BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Labusch, U.	2019	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Germany in 2018. DE18FEBRSNW918B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Labusch, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2019 DE19FETRZAW203A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Labusch, U.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2019 DE19FEHORVW233C BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Laug, S.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Laug, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Germany), 2019 DE19FETTLSS237B Hetterich Fieldworks GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Magyar, B.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			HU19FETRZAW204D Fructika GEP y not published		
KCP 6.4.2	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211E Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS236B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Germany), 2019 DE19FESECSS235A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Magyaróvári, V.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in (Germany), 2019 DE19FETTLSS215C Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253F Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2020	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			DE20FEHORVW254D Agrartest GEP y not published		
KCP 6.4.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2020 DE20FEHORVW255B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Germany), 2020 DE20FESECSS256B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2020 DE20FESECSS257B Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Magyaróvári, V.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2020 DE20FESECSS257C Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Makó, I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Makó, I.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW113A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Syntech HU GEP y not published		
KCP 6.4.2	Makó, I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW203A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Makó, I.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW202A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Makó, I.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Hungary, 2019 HU19FEHORVX113A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Marcela, O.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Slovakia, 2020 SK20FETRZAW263A UKSUP Bratislava GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Marcela, O.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Slovakia, 2020 SK20FEHORVS266A UKSUP Bratislava GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Marecková, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Slovakia, 2019 SK19FETRZAW301A NPPC VURV Piestany GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Martin, T.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in (Germany), 2019 DE19FETRZAW200B Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (Germany), 2019 DE19FETRZAW201C Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in (Germany), 2019 DE19FETRZAW229A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW202D Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2019 DE19FETRZAW203C Martin	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW207C Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW232A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2019 DE19FEHORVW233B Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209D Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211D Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in (Germany), 2019 DE19FETTLSS212B Martin GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Martin, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2020 DE20FEHORVW254A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Martin, T.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in (Germany), 2020 DE20FEAVESA260A Martin GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253E BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2020 DE20FETRZAW252B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Germany), 2020 DE20FETTLSS258B BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Maßmann, K.-W.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in (Germany), 2020 DE20FETTLSS259B BioChem Agrar GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Nagy, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120C Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Nagy, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW114A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Németh, S.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Hungary in 2018. HU18FETRZAW121B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Németh, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW111A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Németh, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW110A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Németh, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Németh, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Hungary, 2019 HU19FEHORVX110A Syntech HU GEP y not published		Agriculture
KCP 6.4.2	Németh, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX201A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Németh, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Hungary, 2019 HU19FEBRSNW200B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Packwood, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Ireland, 2020 IE20FETRZAW534A_S20-03183-01 Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Packwood, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in UK, 2020 UK20FETRZAW534B_S20-03187-01 Eurofins Agroscience GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Packwood, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Ireland, 2020 IE20FEHORVW537B_S20-03188-01 Eurofins Agroscience GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Pawlak, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in POLAND in 2018. PL18FEBRSNW065B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2019 PL19FESECSS292C Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW285A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW286B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW286C Staphyt Poland GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW420A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW420B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Fusarium Head blight (at T3) on winter wheat in Poland, 2019 PL19FETRZAW288A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Fusarium Head blight (at T3) on winter wheat in Poland, 2019 PL19FETRZAW288B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296C Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Poland, 2019 PL19FEBRSNW296D Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2020	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL20FETRZAW033B Staphyt Poland GEP y not published		Agriculture
KCP 6.4.2	Pawlak, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Poland, 2020 PL20FETRZAW035A Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Pawlak, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2020 PL20FESECSS039B Staphyt Poland GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913D U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915D U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914C U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Perner, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916D U.A.S. Jena GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Perner, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in (Germany), 2019 DE19FETRZAW200A U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Perner, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208B U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Perner, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211C U.A.S. Jena GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Raue, C.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW232B SynTech DE GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Raue, C.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in (Germany), 2019 DE19FEHORVW205C Syntech DE GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Raue, C.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW234B SynTech DE GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Raue, C.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209E Syntech DE GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia recondita on wheat, in Germany in 2018. DE18FETRZAW913A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Germany in 2018. DE18FETRZAW914A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Germany in 2018. DE18FETRZAW915A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Germany in 2018. DE18FEHORVW916A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Germany in 2018. DE18FEBRSNW918A Agrartest GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in (Germany), 2019 DE19FETRZAW204A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Trial-Tec GEP y not published		
KCP 6.4.2	Rohr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW230A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in (Germany), 2019 DE19FETRZAW231A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW234A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2020	Efficacy evaluation of different ADM.3500.F formulations for the control of Septoria tritici (SEPTTR) on winter wheat in (Germany), 2020 DE20FETRZAW262C	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Trial-Tec GEP y not published		
KCP 6.4.2	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2020 DE20FETRZAW253D Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in (Germany), 2020 DE20FETRZAW252A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in (Germany), 2020 DE20FEHORVW254B Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rohr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Germany), 2020 DE20FESECSS256A Trial-Tec GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2013	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on rye in Poland, 2019 PL19FESECSS293B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (DTR) on winter wheat in Poland, 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL19FETRZAW418A Fertico GEP y not published		
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (DTR) on winter wheat in Poland, 2019 PL19FETRZAW418B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Pyrenophora teres (PYRNTE) on barley in Poland, 2019 PL19FEHORVW289A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Pyrenophora teres (PYRNTE) on barley in Poland, 2019 PL19FEHORVW289B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW291A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia hordei (PUCCHD) on barley in Poland, 2019 PL19FEHORVW291B Fertico GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Rhynchosporium secalis (RHYNSE) on rye in Poland, 2019 PL19FESECSS293A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2019 PL19FESECSS292A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2019 PL19FESECSS292B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2019 PL19FETTLSS294A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2019 PL19FETTLSS294B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown Rust (PUCCRE) on Triticale in Poland, 2019 PL19FETTLSS295A Fertico GEP y	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			not published		
KCP 6.4.2	Rusek, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown Rust (PUCCRE) on Triticale in Poland, 2019 PL19FETTLSS295B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2020 PL20FETRZAW032A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2020 PL20FETRZAW031B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2020 PL20FEHORVW037A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley inPoland, 2020 PL20FEHORVW036A Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley inPoland 2020 PL20FEHORVW038B Fertico GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in Poland, 2020 PL20FESECSS039C Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Rusek, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2020 PL20FETTLSS040B Fertico GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Ruzicka, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the Czech republic, 2020 CZ20FESECCW257B ZS Rýmarov GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Ruzicka, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech republic, 2020 CZ20FETTLWI259B ZS Rýmarov GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Poland in 2018. PL18FETRZAW064B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Poland in 2018. PL18FETRZAW064A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL19FETRZAW285B Poznan University GEP y not published		
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2019 PL19FETRZAW285C Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2019 PL19FETRZAW286A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW417A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Poland, 2019 PL19FETRZAW417B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Poland, 2019 PL19FEHORVW423A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Poland, 2019	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			PL19FEHORVW423B Poznan University GEP y not published		Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in Poland, 2019 PL19FETTLSS425A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in Poland, 2019 PL19FETTLSS425B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in Poland, 2019 PL19FETTLSS428A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in Poland, 2019 PL19FETTLSS428B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Poland, 2020 PL20FETRZAW032B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Poland, 2020 PL20FETRZAW034B Poznan University GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Poland, 2020 PL20FETRZAW033A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Poland, 2020 PL20FEHORVW037B Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Sawinska, Z.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in Poland, 2020 PL20FETTLSS040A Poznan University GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW113B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW110C SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW204C SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in	N	ADAMA

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			Hungary, 2019 HU19FETRZAW112B SGS Hungary GEP y not published		Agriculture
KCP 6.4.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Hungary, 2019 HU19FETRZAW205B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX110B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX112B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	SGS Hungária Kft.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in Hungary, 2019 HU19FEHORVX113B SGS Hungary GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Somody, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW202B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Somody, G.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Hungary, 2019	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			HU19FETRZAW200B Syntech HU GEP y not published		
KCP 6.4.2	Somody, G.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Hungary, 2019 HU19FETRZAW203B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Subr, J.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVW922B ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Subr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW301A ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Subr, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech Republic, 2019 CZ19FEHORVS234A ZS Trutnov GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Subr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in the Czech republic, 2020 CZ20FEHORVS255C ZS Nechanice GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Subr, J.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in the Czech republic, 2020	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			CZ20FESECCW256B ZS Nechanice GEP y not published		
KCP 6.4.2	Toth, F.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Slovakia in 2018. SK18FEHORVW922A GEMERPRODUKT GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Toth, F.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Slovakia, 2020 SK20FETRZAW252B GEMERPRODUKT GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Trnka, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on rye in the Czech republic, 2020 CZ20FESECCW257A Agricultural Office of Baranya County GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Trnka, M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech republic, 2020 CZ20FETTLWI258B Agricultural Office of Baranya County GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Tuna, V.	2020	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTSP) on triticale in ROMANIA, 2019 RO19FETTLSS159A EAS Romania GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Tuna, V.	2020	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in ROMANIA, 2019 RO19FETTLSS162A	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			EAS Romania GEP y not published		
KCP 6.4.2	Tvaruzek, L.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, Czech republic, 2018. CZ18FEHORVX922C ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Tvaruzek, L.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in the Czech Republic, 2019 CZ19FETRZAW200B ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Tvaruzek, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in the Czech Republic, 2019 CZ19FETTLSS237A ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Tvaruzek, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in the Czech Republic, 2019 CZ19FETTLSS238B ZVU Kromeriz GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Vadász, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Hungary in 2018. HU18FEHORVW125A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Vadász, Z.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120B Syntech HU	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW201B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in Hungary, 2019 HU19FETRZAW110B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX112A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX200B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Vadász, Z.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in Hungary, 2019 HU19FEBRSNW200A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Varga, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Hungary in 2018. HU18FETRZAW121A Syntech HU GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Varga, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Hungary in 2018. HU18FEHORVW124B Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Varga, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in Hungary in 2018. HU18FEBRSNW120A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW201A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in Hungary, 2019 HU19FETRZAW200A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Hungary, 2019 HU19FETRZAW205A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Hungary, 2019 HU19FEHORVX201B Syntech HU GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Varga, A.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Hungary, 2019 HU19FEHORVX200A Syntech HU GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Wied, H.M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Austria), 2019 AT19FETRZAW230A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Wied, H.M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Austria), 2019 AT19FESECSS235B Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Austria), 2020 AT20FESECSS256A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia recondita (PUCCRE) on rye in (Austria), 2020 AT20FESECSS256B Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Wied, H.M.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on Triticale in (Austria), 2020 AT20FETTLSS258A Staphyt AT GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Wolf, P.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in Germany in 2018. DE18FEHORVW917D Agricola	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.2	Wöllmann, S.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208C_2(AC-19-097) agro-check GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Wöllmann, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in (Germany), 2019 DE19FETRZAW229B(AC-19-098) agro-check GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Pyrenophora tritici-repentis (PYRNTR (DTR)) on winter wheat in (Germany), 2019 DE19FETRZAW202A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in (Germany), 2019 DE19FETRZAW201A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in (Germany), 2019 DE19FEHORVW207A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in (Germany), 2019 DE19FEHORVW205A BioChem Agrar	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
			GEP y not published		
KCP 6.4.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in (Germany), 2019 DE19FEHORVW208D BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on rye in (Germany), 2019 DE19FESECSS209A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on rye in (Germany), 2019 DE19FESECSS211A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zickart, U.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia recondita (PUCCRR) on triticale in (Germany), 2019 DE19FETTLSS215A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zickart, U.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in (Germany), 2019 DE19FETTLSS238A BioChem Agrar GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zöllner, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown Rust (PUCCRE) on Triticale in (Germany), 2019 DE19FETTLSS238B FRS Wunstorf GEP y not published	N	ADAMA Agriculture

Data point	Author(S)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.4.2	Zöllner, H.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Crown rust (PUCCCO) on oats in (Germany), 2020 DE20FEAVESA260C FRS Wunstorf GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zsuzsanna, H.P.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in Hungary, 2019 HU19FETRZAW114B Növénypathyka GEP y not published	N	ADAMA Agriculture
KCP 6.4.2	Zsuzsanna, H.P.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in Hungary, 2019 HU19FETRZAW111B Növénypathyka GEP y not published	N	ADAMA Agriculture
KCP 6.2 /552	CREPIN, D.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in (country), 2020 FR20FEBRSNN300B Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /079	Voisin, J.F.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotiorum on rape, in France in 2018. FR18FEBRSNN306C Agrotest France GEP y not published	N	ADAMA Agriculture

List of data submitted or referred to by the applicant and relied on, but already evaluated at EU peer review

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
-	-	-	-	-	-

List of data submitted by the applicant and not relied on, ADM.3500.F.2.B

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /011	VOISIN J.F.	2018	Efficacy evaluation of different MCW-2075 formulations against Puccinia recondita on wheat, in France in 2018. FR18FETRZAX330A Agrotest France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /012	Kroniewicz, L.	2019	Efficacy evaluation of different MCW-2075 formulations against Puccinia recondita (PUCCRE) and Zymoseptoria tritici (SEPTTR) on wheat, in France in 2018. FR18FETRZAX330C Eurofins FR GEP y not published	N	ADAMA Agriculture
KCP 6.2 /013	Kroniewicz, L.	2019	Efficacy evaluation of different MCW-2075 formulations against Puccinia triticina (PUCCRT) and Zymoseptoria tritici (SEPTTR) on wheat, in France in 2018. FR18FETRZAX330D Eurofins FR GEP y not published	N	ADAMA Agriculture
KCP 6.2 /014	ROUANE, W.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici (SEPTTR) and Puccinia recondita (PUCCRE) on wheat, in France in 2018. FR18FETRZAX331D ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /015	Barlet, O.	2019	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in France in 2018. FR18FETRZAX332A SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /016	Wallart, G.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in France in 2018. FR18FETRZAX332B SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /017	CREPIN, D.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in France in 2018. FR18FETRZAX332C Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /018	CREPIN, D.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in France in 2018. FR18FETRZAX332D Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /022	Coscia	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in Italy in 2018. IT18FETRZAX367B ProAGRI S.r.l. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /023	Corradini, L.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Italy in 2018. IT18FETRZAX368A Agri 2000 GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /024	Ettore, B.	2018	Efficacy evaluation of different MCW-2075 formulation against Septoria tritici on wheat, in Italy in 2018. IT18FETRZAX368B Agri 2000 GEP y not published	N	ADAMA Agriculture
KCP 6.2 /025	Ramanauskiene, J.	2018	Efficacy evaluation of different MCW-2075 formulations for Puccinia triticina control on winter wheat in Lithuania in 2018 LT18FETRZAW922A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture
KCP 6.2 /026	Ramanauskiene, J.	2018	Efficacy evaluation of different MCW-2075 formulations against Septoria tritici on winter wheat in Lithuania in 2018 LT18FETRZAW924B IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture
KCP 6.2 /029	Ronis, A.	2018	Efficacy evaluation of different MCW-2075 formulations for Puccinia recondita control on spring wheat in Lithuania in 2018 LT18FETRZAS923A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture
KCP 6.2 /030	Gulbis	2018	Efficacy evaluation of different MCW-2075 formulations for Puccinia recondita control on spring wheat in Latvia in 2018 LV18FETRZAS913A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /031	VARRET, F.	2019	Efficacy evaluation of different MCW-2075 formulations against Puccinia striiformis (PUCCST) on wheat, in France in 2018. FR18FETRZAX331A STAPHYT GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /032	VARRET, F.	2019	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis (PUCCST) on wheat, in France in 2018. FR18FETRZAX331B STAPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2 /033	ROUANE, W.	2018	Efficacy evaluation of different MCW-2075 formulation against Puccinia striiformis on wheat, in France in 2018. FR18FETRZAX331C ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture
KCP 6.2 /037	VOISIN J.F.	2018	Efficacy evaluation of different MCW-2075 formulations against Puccinia recondita on wheat, in France in 2018. FR18FETRZAX330B Agrotest France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /038	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) and Brown rust (PUCCRT) on winter wheat in France, 2019 FR19FETRZAX317A Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /039	Ramanauskiene, J.	2018	Efficacy evaluation of different MCW-2075 formulations against Septoria tritici on winter wheat in Lithuania in 2018 LT18FETRZAW924A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture
KCP 6.2 /044	VARRET, F.	2019	Efficacy evaluation of different MCW-2075 formulations against Net blotch (PYRNTE) and Leaf Blotch (RHYNSE) on barley, in France in 2018. FR18FEHORVX312A STAPHYT GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /045	Legros, C.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in France in 2018. FR18FEHORVX313A SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /046	Legros, C.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium Secalis (RHYNSE) and Helminthosporium (HELMSP) on barley, in France in 2018. FR18FEHORVX313B SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /047	Crépin, D.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in France in 2018. FR18FEHORVX313C Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /048	Crépin, D.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in France in 2018. FR18FEHORVX313D Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /049	BERSEGEAY, A.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in France in 2018. FR18FEHORVX314A QUALIPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2 /050	Kroniewicz, L.	2019	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium secalis on barley, in France in 2018. FR18FEHORVX314D Eurofins FR GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /053	Corradini, L.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Italy in 2018. IT18FEHORVX370A Agri 2000 GEP y not published	N	ADAMA Agriculture
KCP 6.2 /054	Desogus, S.	2018	Efficacy evaluation of different MCW-2075 formulation against Rhynchosporium on barley, in Italy in 2018. IT18FEHORVX370B SAGEA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /063	Kroniewicz, L.	2019	Efficacy evaluation of different MCW-2075 formulation against Pyrenophora teres (PYRNTE) and Rhyncosporium secalis (RHYNSE) on barley, in France in 2018. FR18FEHORVX312D Eurofins FR GEP y not published	N	ADAMA Agriculture
KCP 6.2 /064	Lunzenfichter, D.	2018	Efficacy evaluation of different MCW-2075 formulation against Ramularia on barley, in France in 2018. FR18FEHORVX314B QUALIPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2 /067	Biondaro, S.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Italy in 2018. IT18FEHORVX369A Agri 2000 GEP y not published	N	ADAMA Agriculture
KCP 6.2 /068	Desogus, S.	2018	Efficacy evaluation of different MCW-2075 formulation against Netblotch on barley, in Italy in 2018. IT18FEHORVX369B SAGEA GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /069	Semaskiene, R	2018	Efficacy evaluation of different MCW-2075 formulations against Blumeria graminis on spring barley in Lithuania in 2018 LT18FEHORVS926A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture
KCP 6.2 /070	Rancane, R.	2018	Efficacy evaluation of different MCW-2075 formulation against D.teres on spring barley in Latvia in 2018 LV18FEHORVS915A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /071	Rancane, R.	2018	Efficacy evaluation of different MCW-2075 formulations against Rhynchosporium secale on winter barley in Latvia in 2018 LV18FEHORVW916A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /075	Kroniewicz, L.	2019	Efficacy evaluation of different MCW-2075 formulations against Puccinia hordei and Ramularia on barley, in France in 2018. FR18FEHORVX314C Eurofins FR GEP y not published	N	ADAMA Agriculture
~~KCP 6.2 /079~~	~~Voisin, J.F.~~	~~2018~~	~~Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotiorum on rape, in France in 2018.~~ ~~FR18FEBRSNN306C~~ ~~Agrotest France~~ ~~GEP y~~ ~~not published~~	~~N~~	~~ADAMA Agriculture~~
KCP 6.2 /080	Barlet, O.	2018	Efficacy evaluation of different MCW-2075 formulation against Sclerotinia sclerotium on rape, in France in 2018. FR18FEBRSNN306D SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /103	Nistrup Jørgensen, L.	2019	Efficacy of ADM.3500.F.2.B for Septoria tritici control in winter wheat in Denmark 2019 DK19FETRZAW248A University of Aarhus GEP y not published	N	ADAMA Agriculture
KCP 6.2 /104	Nistrup Jørgensen, L.	2019	Efficacy of ADM.3500.F.2.B for Puccinia striiformis control in winter wheat in Denmark 2019 DK19FETRZAW249A University of Aarhus GEP y not published	N	ADAMA Agriculture
KCP 6.2 /105	Nistrup Jørgensen, L.	2019	Efficacy of ADM.3500.F.2.B for Erysiphe graminis control in winter wheat in Denmark 2019 DK19FETRZAW251A University of Aarhus GEP y not published	N	ADAMA Agriculture
KCP 6.2 /106	Nistrup Jørgensen, L.	2019	Efficacy of ADM.3500.F.2.B for Fusarium spp. control in winter wheat in Denmark 2019 DK19FETRZAW252A University of Aarhus GEP y not published	N	ADAMA Agriculture
KCP 6.2 /107	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) and Septoria leaf blotch (SEPTTR) on winter wheat in France, 2019 FR19FETRZAX317B Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /108	Lunzenfichter, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in France, 2019. FR19FETRZAX326A QUALIPHYT GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /109	Lunzenfichter, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Septoria tritici (SEPTTR) on winter wheat in France, 2019. FR19FETRZAX326B QUALIPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2 /110	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown leaf rust (PUCCRE) and Septoria tritici (SEPTTR) on winter wheat in France, 2019 FR19FETRZAX328B Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /111	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) and Puccinia recondita (PUCCRE) on winter wheat in France, 2019. FR19FETRZAX354B ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture
KCP 6.2 /112	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in France, 2019 FR19FETRZAX355A Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /113	Chourdas, M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on durum wheat in Greece in 2019. GR19FETRZAW333A Magma Agr. Inp. GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /120	Rugiano; M.; Pilani, R.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in (Italy), 2019 IT19FETRZAW381A Agri 2000 GEP y not published	N	ADAMA Agriculture
KCP 6.2 /121	Ramanauskiene, J.	2020	Efficacy of ADM.3500.F.2.B (MCW-2075) for Zymoseptoria tritici control in winter wheat in Lithuania in 2019 LT19FETRZAX504A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture
KCP 6.2 /122	Gulbis, K.	2019	Efficacy of MCW-2075 for Pyrenophora tritici-repentis control in winter wheat in Latvia in 2019 LV19FETRZAX490A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /123	Gulbis, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Latvia in 2019 LV19FETRZAX491A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /132	Ewaldz, T.	2019	Efficacy of ADM.3500.F.2.B for Zymoseptoria tritici control in winter wheat in Sweden in 2019 SE19FETRZAW257A HUSEC AB GEP y not published	N	ADAMA Agriculture
KCP 6.2 /133	Ewaldz, T.	2019	Efficacy of ADM.3500.F.2.B for Puccinia striiformis control in winter wheat in Sweden in 2019 SE19FETRZAW258A HUSEC AB GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /134	Ewaldz, T.	2019	Efficacy of ADM.3500.F.2.B for Pyrenophora tritici-repentis control in winter wheat in Sweden in 2019 SE19FETRZAW259A HUSEC AB GEP y not published	N	ADAMA Agriculture
KCP 6.2 /142	Gomez, A.	2019	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of Septoria tritici & Septoria nodorum and other fungal diseases in wheat, Spain, 2019 SP19FETRZAX308A Agricultura y Ensayo GEP y not published	N	ADAMA Agriculture
KCP 6.2 /143	Sañudo, J.P.	2019	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Fusarium spp. and other fungal diseases in wheat, Spain, 2019 SP19FETRZAX312A INNOVAGRO GEP y not published	N	ADAMA Agriculture
KCP 6.2 /149	Nistrup Jørgensen, L.	2019	Efficacy of ADM.3500.F.2.B for Pyrenophorea repentis-tritici control in winter wheat in Denmark 2019 DK19FETRZAW250A University of Aarhus GEP y not published	N	ADAMA Agriculture
KCP 6.2 /150	Chourdas, M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR) on durum wheat in Greece in 2019 GR19FETRZAW332A Magma Agr. Inp. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /159	Ramanauskiene, J.	2020	Efficacy of ADM.3500.F.2.B (MCW-2075) for Pyrenophora tritici-repentis control in winter wheat in Lithuania in 2019 LT19FETRZAX505A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /160	Gulbis, K.	2019	Efficacy of MCW-2075 for Blumeria graminis control in spring wheat in Latvia in 2019 LV19FETRZAX488A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /161	Gulbis, K.	2019	Efficacy of MCW-2075 for Puccinia recondita control in winter wheat in Latvia in 2019 LV19FETRZAX489A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /162	Gulbis, K.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on spring wheat in Latvia in 2019 LV19FETRZAX491B LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /165	Puente, J.R.V.	2019	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of Pyrenophora tritici-repentis and other fungal diseases in wheat, Spain, 2019 SP19FETRZAX311A Agricultura y Ensayo GEP y not published	N	ADAMA Agriculture
KCP 6.2 /166	Puente, J.R.V.	2019	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of Pyrenophora tritici-repentis and other fungal diseases in wheat, Spain, 2019 SP19FETRZAX311B Agricultura y Ensayo GEP y not published	N	ADAMA Agriculture
KCP 6.2 /168	WALLART, F.	2019	EFFICACY EVALUATION OF ADM.3502.F.1.A FOR THE CONTROL OF YELLOW RUST (PUCCST) ON WINTER WHEAT IN FRANCE, 2019 FR19FETRZAX328A SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /169	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Yellow rust (PUCCST) on winter wheat in France, 2019 FR19FETRZAX328C Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /170	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) and Puccinia striiformis (PUCCST) on winter wheat in France, 2019 FR19FETRZAX355B Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /175	Desogus, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in Italy, 2019 IT19FETRZAW383A SAGEA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /182	Urrutia, J.Z.	2019	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of Septoria tritici & Septoria nodorum and other fungal diseases in wheat, Spain, 2019 SP19FETRZAX308B INTIA / ADAMA Agric. ES GEP y not published	N	ADAMA Agriculture
KCP 6.2 /183	Urrutia, J.Z.	2019	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of Puccinia striiformis and other fungal diseases in wheat, Spain, 2019 SP19FETRZAX310A INTIA / ADAMA Agric. ES GEP y not published	N	ADAMA Agriculture
KCP 6.2 /190	Rivet, J.; Crepin, D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRE) on winter wheat in France, 2019 FR19FETRZAX316 A Essais+ GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /191	Rivet, J.; Crepin, D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRE) on winter wheat in France, 2019 FR19FETRZAX316B Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /192	WALLART, F.	2019	EFFICACY EVALUATION OF ADM.3502.F.1.A FOR THE CONTROL OF BROWN RUST (PUCCRT) ON WINTER WHEAT IN FRANCE, 2019 FR19FETRZAX329A SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /193	BAROU, JL	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in France, 2019 FR19FETRZAX329B Agrotest France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /194	BAROU, JL	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Brown rust (PUCCRT) on winter wheat in France, 2019 FR19FETRZAX329C Agrotest France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /195	DELLA, A.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust on winter wheat in Greece in 2019. GR19FETRZAW331A Anadiag Hellas GEP y not published	N	ADAMA Agriculture
KCP 6.2 /200	Rugiano; M.; Pilani, R.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Brown rust (PUCCRT) on winter wheat in Italy, 2019 IT19FETRZAW382A Agri 2000 GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /209	Serra, J.	2019	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of Puccinia triticina and other fungal diseases in wheat, Spain, 2019 SP19FETRZAX309A IRTA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /213	Nistrup Jørgensen, L.	2019	Efficacy of ADM.3500.F.2.B for Blumeria graminis control in winter wheat in Denmark 2019 DK19FETRZAW247A University of Aarhus GEP y not published	N	ADAMA Agriculture
KCP 6.2 /214	Rivet, J.; Crepin, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in France, 2019 FR19FETRZAX327B Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /215	Rivet, J.; Crepin, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in France, 2019 FR19FETRZAX327C Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /216	WALLART, F.	2019	EFFICACY EVALUATION OF ADM.3502.F.1.A FOR THE CONTROL OF BLUMERIA GRAMINIS TRITICI (ERYSGT) ON WINTER WHEAT IN FRANCE, 2019 FR19FETRZAX327D SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /217	ROUANE, W.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in France, 2019. FR19FETRZAX354A ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /220	Semaskiene, R	2019	Efficacy of MCW-2075 for Blumeria graminis control in spring wheat in Lithuania in 2019 LT19FETRZAX501A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture
KCP 6.2 /221	Ramanauskiene, J.	2020	Efficacy of ADM.3500.F.2.B (MCW-2075) for Zymoseptoria tritici control in winter wheat in Lithuania in 2019 LT19FETRZAX502A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture
KCP 6.2 /222	Semaskiene, R	2019	Efficacy of ADM.3500.F.2.B (MCW-2075) for Erysiphe graminis in spring wheat in Lithuania in 2019 LT19FETRZAX503A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture
KCP 6.2 /231	VARRET, F.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium culmorum (FUSACU) on winter wheat in France, 2019 FR19FETRZAX318A STAPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2 /232	VARRET, F.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium culmorum (FUSACU) on winter wheat in France 2019 FR19FETRZAX318B STAPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2 /236	Rugiano; M.; Pilani, R.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Italy, 2019 IT19FETRZAW384A Agri 2000 GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /250	BAROU, JL	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in France, 2019 FR19FEHORVX309A Agrotest France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /251	BAROU, JL	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in France, 2019 FR19FEHORVX309B Agrotest France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /252	Flahaut, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in france, 2019 FR19FEHORVX311C STAPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2 /253	Rivet, J.; Crepin, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Rhynchosporium secalis (RHYNSE) on barley in France, 2019 FR19FEHORVX316A Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /254	Chourdas, M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Greece in 2019. GR19FEHORVW335A Magma Agr. Inp. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /261	Desogus, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Italy, 2019 IT19FEHORVW386A SAGEA GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /262	Gulbis, K.	2020	Efficacy of ADM.3500.F.2.B (MCW-2075) for Pyrenophora teres control in winter barley in Latvia in 2019 LV19FEHORVW493A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /271	Urrutia, J.Z.	2019	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis and other fungal diseases in barley, Spain, 2019 SP19FEHORVX314B INTIA / ADAMA Agric. ES GEP y not published	N	ADAMA Agriculture
KCP 6.2 /283	Nistrup Jørgensen, L.	2019	Efficacy of ADM.F.2.B for Puccinia hordei control in spring barley in Denmark 2019 DK19FEHORVX254A University of Aarhus GEP y not published	N	ADAMA Agriculture
KCP 6.2 /284	Nistrup Jørgensen, L.	2019	Efficacy of ADM.F.2.B for Puccinia hordei control in spring barley in Denmark 2019 DK19FEHORVX255A University of Aarhus GEP y not published	N	ADAMA Agriculture
KCP 6.2 /285	Rivet, J.; Crepin, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) on barley in France, 2019 FR19FEHORVS318A Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /286	Flahaut, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in France 2019 FR19FEHORVX358A STAPHYT GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /287	Flahaut, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) and Blumeria graminis hordei (ERYSGH) on barley in France 2019 FR19FEHORVX358B STAPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2 /288	WALLART, F.	2019	EFFICACY EVALUATION OF ADM.3500.F.2.B FOR THE CONTROL OF PYRENOPHORA TERES (PYRNTE) ON BARLEY IN FRANCE, 2019 FR19FEHORVX358C SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /289	Chourdas, M.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Greece in 2019 GR19FEHORVW334A Magma Agr. Inp. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /294	Desogus, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Italy, 2019 IT19FEHORVW385A SAGEA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /295	Rugiano; M.; Pilani, R.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in Italy, 2019 IT19FEHORVW388A Agri 2000 GEP y not published	N	ADAMA Agriculture
KCP 6.2 /296	Verikaite, K.	2019	Efficacy of MCW-2075 for Pyrenophora teres control in spring barley in Lithuania in 2019 LT19FEHORVX509A IA LRC, Kedainiai GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /297	Gulbis, K.	2019	Efficacy of ADM.3500.F.2.B (MCW-2075) for Pyrenophora teres control in spring barley in Latvia in 2019 LV19FEHORVX492A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /298	Gulbis, K.	2019	Efficacy of MCW-2075 for Puccinia hordei control in spring barley in Latvia in 2019 LV19FEHORVX494A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /305	Broms, C.	2020	Efficacy of ADM.3500.F.2.B against PUCCST in winter wheat, Sweden 2020 SE20FETRZAW232A HS Skåne HUSEC GEP y not published	N	ADAMA Makhteshim Ltd.
KCP 6.2 /307	Urrutia, J.Z.	2019	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres and other fungal diseases in barley, Spain, 2019 SP19FEHORVX313A INTIA / ADAMA Agric. ES GEP y not published	N	ADAMA Agriculture
KCP 6.2 /308	Gomez, A.	2019	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni and other fungal diseases in barley, Spain, 2019 SP19FEHORVX315A Agricultura y Ensayo GEP y not published	N	ADAMA Agriculture
KCP 6.2 /314	Nistrup Jørgensen, L.	2019	Efficacy of ADM.3500.F.2.B for Puccinia hordei control in spring barley in Denmark 2019 DK19FEHORVX253A University of Aarhus GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /315	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in France, 2019 FR19FEHORVX310A Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /316	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC), Pyrenophora graminea (PYRNGR) and Puccinia hordei (PUCCHD) on Barley, in France, 2019. FR19FEHORVX310B Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /317	ROUANE, W.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in France in 2019 FR19FEHORVX310C ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture
KCP 6.2 /319	Desogus, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Italy, 2019 IT19FEHORVW387A SAGEA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /320	Ewaldz, T.	2019	Efficacy of ADM.3500.F.2.B for Puccinia hordei control in spring barley in Sweden in 2019 SE19FEHORVX260A HUSEC AB GEP y not published	N	ADAMA Agriculture
KCP 6.2 /324	Flahaut, J.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in france, 2019 FR19FEHORVX311B STAPHYT GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /325	GOUAILLE, L.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Netblotch (PYRNTE) and Rhynchosporium (RHYNSE) on barley in France, 2019 FR19FEHORVX318B Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /326	Rivet, J.; Crepin, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in France, 2019 FR19FEHORVX319A Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /327	Rivet, J.; Crepin, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in France, 2019 FR19FEHORVX319B Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /328	Rivet, J.; Crepin, D.	2019	Efficacy evaluation of ADM.3502.F.1.A for the control of Puccinia hordei (PUCCHD) on barley in France, 2019 FR19FEHORVX319C Essais+ GEP y not published	N	ADAMA Agriculture
KCP 6.2 /331	Desogus, S.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in Italy, 2019 IT19FEHORVW388B SAGEA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /336	Gironella, J.S.; Oliveras, R.S.	2019	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Puccinia hordei and other fungal diseases in barley, Spain, 2019 SP19FEHORVX316A IRTA GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /347	Gulbis, K.	2019	Efficacy of ADM.3500.F.2.B (MCW-2075) for Puccinia recondita control in rye in Latvia in 2019 LV19FESECSS495A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /348	Gulbis, K.	2019	Efficacy of ADM.3500.F.2.B (MCW-2075) for Rhynchosporium secale control in rye in Latvia in 2019 LV19FESECSS496A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /352	Ewaldz, T.	2019	Efficacy of ADM.3500.F.2.B for Puccinia recondita control in rye in Sweden in 2019 SE19FESECSS261A HUSEC AB GEP y not published	N	ADAMA Agriculture
KCP 6.2 /353	Sañudo, J.P.	2019	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of fungal diseases in Rye, Spain, 2019 SP19FESECCE318B INNOVAGRO GEP y not published	N	ADAMA Agriculture
KCP 6.2 /362	Puente, J.R.V.	2019	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of fungal diseases in Rye, Spain, 2019 SP19FESECCE318A Agricultura y Ensayo GEP y not published	N	ADAMA Agriculture
KCP 6.2 /392	Ewaldz, T.	2019	Efficacy of ADM.3500.F.2.B for Puccinia striiformis control in winter triticale in Sweden in 2019 SE19FETTLSS263A HUSEC AB GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /399	ROUANE, W.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in france in 2019 FR19FEBRSNN305B ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture
KCP 6.2 /400	Lunzenfichter, D.	2019	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in France, 2019. FR19FEBRSNN305D QUALIPHYT GEP y not published	N	ADAMA Agriculture
KCP 6.2 /405	Gulbis, K.	2019	Efficacy evaluation of ADM.3500.F.2.B (MCW-2075) for the control of Sclerotinia sclerotiorum in winter oilseed rape in Latvia in 2019 LV19FEBRSNN500B LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /420	Ducrot, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in France, 2020 ADAMA FR20FETRZAW300D ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture
KCP 6.2 /421	GOUAILLE, L.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) and Puccinia recondita (PUCCRE) on winter wheat in France, 2020 FR20FETRZAW301A Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /422	Ducrot, S.	2020	Efficacy evaluation of different ADM.3500.F formulations for the control of Septoria tritici (SEPTTR) on winter wheat in France, 2020 ADAMA FR20FETRZAW305A ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /423	Flahaut, J.	2020	Efficacy evaluation of different ADM.3500.F formulations for the control of Septoria tritici (SEPTTR) on winter wheat in France, 2020 FR20FETRZAW305C Staphyt France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /424	M. Chourdas	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on durum wheat in Greece, 2020 GR20FETRZAW305A Magma Agr. Inp. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /427	L. Bernasconi	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Septoria tritici (SEPTTR) on winter wheat in Italy, 2020 IT20FETRZAW355A Biofarm S.r.l. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /428	Desogus, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Zymoseptoria tritici (SEPTTR) on winter wheat in Italy, 2020 IT20FETRZAW356A SAGEA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /437	Castro, J.M.	2020	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of Septoria tritici & Septoria nodorum and other fungal diseases in wheat, Spain, 2020 ~~SP20FETRZAWW314A~~ SP20FETRZAW314A AGROTECNICA DEL SURGEP y not published	N	ADAMA Agriculture
KCP 6.2 /438	Oliva, L.M.	2020	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of PUCCRT (brown rust) and other fungal diseases in wheat, Spain, 2020 ~~SP20FETRZAWW315A~~ SP20FETRZAW315A ANADIAG IBÉRICA GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /442	M. Chourdas	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora tritici-repentis (PYRNTR) on durum wheat in Greece, 2020 GR20FETRZAW304A Magma Agr. Inp. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /449	Moreno, S.	2020	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of Pyrenophora tritici-repentis and other fungal diseases in wheat, Spain, 2020 SP20FETRZAX317A Agricultura y Ensayo GEP y not published	N	ADAMA Agriculture
KCP 6.2 /450	Moreno, S.	2020	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of Pyrenophora tritici-repentis and other fungal diseases in wheat, Spain, 2020 SP20FETRZAX317B Agricultura y Ensayo GEP y not published	N	ADAMA Agriculture
KCP 6.2 /453	GOUAILLE, L.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in France, 2020. FR20FETRZAW303A Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /454	GOUAILLE, L.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Yellow rust (PUCCST) on winter wheat in France, 2020. FR20FETRZAW303B Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /459	Paramio, J.A.	2020	Efficacy & selectivity evaluation ofADM.3500.F.2.B for the control of PUCCSI (Yellow rust) and other fungal diseases in wheat, Spain, 2020 ~~SP20FETRZAWW316A~~ SP20FETRZAW316A SIACYL Spain GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /463	Sañudo, J.P.	2020	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Fusarium spp. and other fungal diseases in wheat, Spain, 2020 SP20FETRZAW318A INNOVAGRO GEP y not published	N	ADAMA Agriculture
KCP 6.2 /464	WALLART, F.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in France, 2020 FR20FETRZAW300A SAS (SARL) EPHYDIA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /465	GOUAILLE, L.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in France, 2020 FR20FETRZAW300B Biotek Agriculture France GEP y not published	N	ADAMA Agriculture
KCP 6.2 /466	Ducrot, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on winter wheat in France, 2020 ADAMA FR20FETRZAW300C ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture
KCP 6.2 /467	M. Chourdas	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Blumeria graminis tritici (ERYSGT) on durum wheat in Greece, 2020 GR20FETRZAW302A Magma Agr. Inp. GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /470	Ducrot, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in France, 2020 ADAMA FR20FETRZAW304A ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture
KCP 6.2 /471	Desogus, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Fusarium Head blight (at T3) on winter wheat in Italy, 2020 IT20FETRZAW358A SAGEA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /478	Ducrot, S.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in France, 2020 ADAMA FR20FEHORVW302A ANADIAG FRANCE GEP y not published	N	ADAMA Agriculture
KCP 6.2 /479	Chourdas	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Greece, 2020 GR20FEHORVW307A Magma Agr. Inp. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /482	Marchi	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Italy, 2020 IT20FEHORVW360A Agri 2000 GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /483	M. Moizio	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis (RHYNSE) on barley in Italy, 2020 IT20FEHORVW362B SAGEA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /488	Sañudo, J.P.	2020	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis and other fungal diseases in barley, Spain, 2020 SP20FEHORVX320A INNOVAGRO GEP y not published	N	ADAMA Agriculture
KCP 6.2 /495	Chourdas	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Greece, 2020 GR20FEHORVW306A Magma Agr. Inp. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /496	D'Andrea	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres (PYRNTE) on barley in Italy, 2020 IT20FEHORVW359A Res Agraria s.r.l. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /502	Castro, J.M.	2020	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Pyrenophora teres and other fungal diseases in barley, Spain, 2020 SP20FEHORVX319A AGROTECNICA DEL SUR GEP y not published	N	ADAMA Agriculture
KCP 6.2 /503	Bustillo, J.	2020	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni and other fungal diseases in barley, Spain, 2020 SP20FEHORVX321A Agricultura y Ensayo GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /509	L. Bernasconi	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Ramularia collo-cygni (RAMUCC) on barley in Italy, 2020 IT20FEHORVW361A Agricola 2000 GEP y not published	N	ADAMA Agriculture
KCP 6.2 /511	D. D'Andrea	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Puccinia hordei (PUCCHD) on barley in Italy, 2020 IT20FEHORVW362A Res Agraria s.r.l. GEP y not published	N	ADAMA Agriculture
KCP 6.2 /513	Oliva, L.M.	2020	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Puccinia hordei and other fungal diseases in barley, Spain, 2020 SP20FEHORVX322A ANADIAG IBÉRICA GEP y not published	N	ADAMA Agriculture
KCP 6.2 /523	Batres de Rojas, L.M.	2020	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of fungal diseases in Rye, Spain, 2020 SP20FESECCE324A EAS Spain GEP y not published	N	ADAMA Agriculture
KCP 6.2 /524	Sañudo, J.P.	2020	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of fungal diseases in Rye, Spain, 2020 SP20FESECCE324B INNOVAGRO GEP y not published	N	ADAMA Agriculture
KCP 6.2 /530	Sañudo, J.P.	2020	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of fungal diseases in Rye, Spain, 2020 SP20FESECCE323A INNOVAGRO GEP y not published	N	ADAMA Agriculture

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
KCP 6.2 /551	Gulbis, K.	2020	Efficacy of ADM.3500.F.2.B for Puccinia coronata control in oat in Latvia in 2020 LV20FEAVESP464A LPPRC Riga GEP y not published	N	ADAMA Agriculture
~~KCP 6.2 /552~~	~~CREPIN, D.~~	~~2020~~	~~Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia on oilseed rape in (country), 2020~~ ~~FR20FEBRSNN300B~~ ~~Essais+~~ ~~GEP y~~ ~~not published~~	~~N~~	~~ADAMA Agriculture~~
KCP 6.2 /553	Gulbis, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia sclerotiorum in winter oilseed rape in Latvia in 2020 LV20FEBRSNN453A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /554	Gulbis, K.	2020	Efficacy evaluation of ADM.3500.F.2.B for the control of Sclerotinia sclerotiorum in winter oilseed rape in Latvia in 2020 LV20FEBRSNW519A LPPRC Riga GEP y not published	N	ADAMA Agriculture
KCP 6.2 /560	Macario, E.R.	2020	Efficacy & selectivity evaluation of ADM.3500.F.2.B for the control of Rhynchosporium secalis and other fungal diseases in barley, Spain, 2019 SP19FEHORVX314A GEP y not published	N	ADAMA Agriculture

List of data relied on not submitted by the applicant but necessary for evaluation

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
-	-	-	-	-	-

~~Appendix 2 Critical Uses – justification and GAP tables~~

~~Table A2/1: Central Zone~~

~~GAP rev. date: November 2022~~

~~PPP (product name/code) ADM.3500.F.2B~~
~~active substance 1 Prothioconazole~~
~~active substance 2~~
~~active substance 3~~
~~safener –~~
~~synergist –~~
~~Applicant: ADAMA Polska Sp.z.o.o~~
~~Zone(s): Central /EU~~
~~Verified by MS: no~~

~~Formulation type: EC (Emulsifiable concentrate)~~
~~Conc. of as 1: 250 g/L~~
~~Conc. of as 2:~~
~~Conc. of as 3:~~
~~Conc. of safener: -~~
~~Conc. of synergist: -~~
~~professional use~~ ☒
~~non professional use~~ ☐

~~1~~	~~2~~	~~3~~	~~4~~	~~5~~	~~6~~	~~7~~	~~8~~	~~9~~	~~10~~	~~11~~	~~12~~	~~13~~	~~14~~
~~Use-No.~~ ~~(e)~~	~~Member state(s)~~	~~Crop and/ or situation (crop destination / purpose of crop)~~	~~F, Fn, Fpn G, Gn, Gpn or I~~	~~Pests or Group of pests controlled (additionally: developmental stages of the pest or pest group)~~	~~Application~~				~~Application rate~~			~~PHI (days)~~	~~Remarks: e.g. safener/synergist per ha e.g. recommended or mandatory tank mixtures~~ ~~(f)~~
					~~Method / Kind~~	~~Timing / Growth stage of crop (BBCH) & season~~	~~Max. number a) per use b) per crop/ season~~	~~Min. interval between applica-tions (days)~~	~~kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season~~	~~g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season~~	~~Water L/ha min / max~~		
~~Zonal uses (field or outdoor uses, certain types of protected crops)~~													
~~1~~	~~Germany~~	~~Winter wheat (TRZAW) Spring wheat (TRZAS)~~	~~F~~	~~Septoria tritici Drechslera tritici-repentis (DTR) Puccinia striiformis Puccinia recondita Fusarium + microdochium~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~2~~	~~Germany~~	~~Winter barley (HORVW) Spring barley (HORVS)~~	~~F~~	~~Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~3~~	~~Germany~~	~~Winterr rye (SECCW)~~	~~F~~	~~Rhynchosporium secalis Puccinia recondita~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~4~~	~~Germany~~	~~Winter triticale (TTLWI) Spring triticale (TTLSO)~~	~~F~~	~~Septoria tritici Puccinia recondita Puccinia striiformis~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		

~~1~~	~~2~~	~~3~~	~~4~~	~~5~~	~~6~~	~~7~~	~~8~~	~~9~~	~~10~~	~~11~~	~~12~~	~~13~~	~~14~~
~~Use-No.~~ ~~(e)~~	~~Member state(s)~~	~~Crop and/ or situation~~ ~~(crop destination / purpose of crop)~~	~~F, Fn, Fpn G, Gn, Gpn or I~~	~~Pests or Group of pests controlled~~ ~~(additionally: developmental stages of the pest or pest group)~~	~~Application~~				~~Application rate~~			~~PHI (days)~~	~~Remarks:~~ ~~e.g. safener/synergist per ha~~ ~~e.g. recommended or mandatory tank mixtures~~ ~~(f)~~
					~~Method / Kind~~	~~Timing / Growth stage of crop (BBCH) & season~~	~~Max. number a) per use b) per crop/ season~~	~~Min. interval between applica-tions (days)~~	~~kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season~~	~~g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season~~	~~Water L/ha min / max~~		
~~5~~	~~Germany~~	~~Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)~~	~~F~~	~~Sclerotinia sclerotiorum Alternaria spp.~~	~~foliar, spraying, overall~~	~~-/ BBCH 50-73 spring~~	~~a) 1 b) 1~~	~~—~~	~~a) 0.7 L/ha b) 0.7 L/ha~~	~~a) 175 b) 175~~	~~100-400~~		
~~6~~	~~Austria~~	~~Winter wheat (TRZAW) Spring wheat (TRZAS)~~	~~F~~	~~Septoria tritici Drechslera tritici-repentis (DTR) Puccinia striiformis Puccinia recondita Fusarium + microdochium~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1 b) 1~~	~~—~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~7~~	~~Austria~~	~~Winter barley (HORVW) Spring barley (HORVS)~~	~~F~~	~~Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1 (-) b) 1 (-)~~	~~—~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~8~~	~~Austria~~	~~Winterr rye (SECCW)~~	~~F~~	~~Rhynchosporium secalis Puccinia recondita~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1 b) 1~~	~~—~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~9~~	~~Austria~~	~~Winter triticale (TTLWI) Spring triticale (TTLSO)~~	~~F~~	~~Septoria tritici Puccinia recondita Puccinia striiformis~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1 b) 1~~	~~—~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~10~~	~~Austria~~	~~Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)~~	~~F~~	~~Sclerotinia sclerotiorum Alternaria spp.~~	~~foliar, spraying, overall~~	~~-/ BBCH 50-73 spring~~	~~a) 1 b) 1~~	~~—~~	~~a) 0.7 L/ha b) 0.7 L/ha~~	~~a) 175 b) 175~~	~~100-400~~		
~~11~~	~~Belgium~~	~~Winter wheat (TRZAW) Spring wheat (TRZAS)~~	~~F~~	~~Septoria tritici Puccinia striiformis Puccinia recondita Fusarium + microdochium~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1 b) 1~~	~~—~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~12~~	~~Belgium~~	~~Winter barley (HORVW) Spring barley (HORVS)~~	~~F~~	~~Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1 b) 1~~	~~—~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~13~~	~~Belgium~~	~~Winterr rye (SECCW)~~	~~F~~	~~Rhynchosporium secalis Puccinia recondita~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1 b) 1~~	~~—~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		

~~1~~	~~2~~	~~3~~	~~4~~	~~5~~	~~6~~	~~7~~	~~8~~	~~9~~	~~10~~	~~11~~	~~12~~	~~13~~	~~14~~
~~**Use-No.**~~ ~~(e)~~	~~**Member state(s)**~~	~~**Crop and/ or situation**~~ ~~**(crop destina-tion / purpose of crop)**~~	~~**F, Fn, Fpn G, Gn, Gpn or I**~~	~~**Pests or Group of pests controlled**~~ ~~(additionally: develop-mental stages of the pest or pest group)~~	~~**Application**~~				~~**Application rate**~~			~~**PHI**~~ ~~(days)~~	~~**Remarks:**~~ ~~e.g. safener/syner-gist per ha~~ ~~e.g. recommended or mandatory tank mixtures~~ ~~(f)~~
					~~Method / Kind~~	~~Timing / Growth stage of crop (BBCH) & season~~	~~Max. number a) per use b) per crop/ season~~	~~Min. interval between ap-plica-tions (days)~~	~~kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season~~	~~g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season~~	~~Water L/ha min / max~~		
~~14~~	~~Belgium~~	~~Winter triticale (TTLWI)~~ ~~Spring triticale (TTLSO)~~	~~F~~	~~Septoria tritici~~ ~~Puccinia recondita~~ ~~Puccinia striiformis~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.8 L/ha~~ ~~b) 0.8 L/ha~~	~~a) 200~~ ~~b) 200~~	~~100-400~~		
~~15~~	~~Belgium~~	~~Oats (AVESS)~~	~~F~~	~~Puccinia coronata~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.8 L/ha~~ ~~b) 0.8 L/ha~~	~~a) 200~~ ~~b) 200~~	~~100-400~~		
~~16~~	~~Belgium~~	~~Winter oilseed rape (BRSNW)~~ ~~Spring oilseed rape (BRSNS)~~	~~F~~	~~Sclerotinia sclerotiorum~~ ~~Alternaria spp.~~	~~foliar, spraying, overall~~	~~-/ BBCH 50-73 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.7 L/ha~~ ~~b) 0.7 L/ha~~	~~a) 175~~ ~~b) 175~~	~~100-400~~		
~~17~~	~~Nether-lands~~	~~Winter wheat (TRZAW)~~ ~~Spring wheat (TRZAS)~~	~~F~~	~~Septoria tritici~~ ~~Puccinia striiformis~~ ~~Puccinia recondita~~ ~~Fusarium + microdochium~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.8 L/ha~~ ~~b) 0.8 L/ha~~	~~a) 200~~ ~~b) 200~~	~~100-400~~		
~~18~~	~~Nether-lands~~	~~Winter barley (HORVW)~~ ~~Spring barley (HORVS)~~	~~F~~	~~Rhynchosporium secalis~~ ~~Helminthosporium gra-mineum (Pyrenophora te-res)~~ ~~Ramularia collo-cygni~~ ~~Puccinia hordei~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.8 L/ha~~ ~~b) 0.8 L/ha~~	~~a) 200~~ ~~b) 200~~	~~100-400~~		
~~19~~	~~Nether-lands~~	~~Winterr rye (SECCW)~~	~~F~~	~~Rhynchosporium secalis~~ ~~Puccinia recondita~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.8 L/ha~~ ~~b) 0.8 L/ha~~	~~a) 200~~ ~~b) 200~~	~~100-400~~		
~~20~~	~~Nether-lands~~	~~Winter triticale (TTLWI)~~ ~~Spring triticale (TTLSO)~~	~~F~~	~~Septoria tritici~~ ~~Puccinia recondita~~ ~~Puccinia striiformis~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.8 L/ha~~ ~~b) 0.8 L/ha~~	~~a) 200~~ ~~b) 200~~	~~100-400~~		
~~21~~	~~Nether-lands~~	~~Oats (AVESS)~~	~~F~~	~~Puccinia coronata~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.8 L/ha~~ ~~b) 0.8 L/ha~~	~~a) 200~~ ~~b) 200~~	~~100-400~~		
~~22~~	~~Nether-lands~~	~~Winter oilseed rape (BRSNW)~~ ~~Spring oilseed rape (BRSNS)~~	~~F~~	~~Sclerotinia sclerotiorum~~ ~~Alternaria spp.~~	~~foliar, spraying, overall~~	~~-/ BBCH 50-73 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.7 L/ha~~ ~~b) 0.7 L/ha~~	~~a) 175~~ ~~b) 175~~	~~100-400~~		
~~28~~	~~Ireland~~	~~Winter wheat (TRZAW)~~ ~~Spring wheat (TRZAS)~~	~~F~~	~~Septoria tritici~~ ~~Puccinia striiformis~~ ~~Puccinia recondita~~ ~~Fusarium + microdochium~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1~~ ~~b) 1~~	~~–~~	~~a) 0.8 L/ha~~ ~~b) 0.8 L/ha~~	~~a) 200~~ ~~b) 200~~	~~100-400~~		

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use-No. (e)	**Member state(s)**	**Crop and/ or situation** **(crop destination / purpose of crop)**	**F, Fn, Fpn G, Gn, Gpn or I**	**Pests or Group of pests controlled** (additionally: developmental stages of the pest or pest group)	**Application**				**Application rate**			**PHI** (days)	**Remarks:** e.g. safener/synergist per ha e.g. recommended or mandatory tank mixtures (f)
					Method / Kind	Timing / Growth stage of crop (BBCH) & season	Max. number a) per use b) per crop/ season	Min. interval between applica-tions (days)	kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season	Water L/ha min / max		
29	Ireland	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		
30	Ireland	Winterr rye (SECCW)	F	Rhynchosporium secalis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		
31	Ireland	Winter triticale (TTLWI) Spring triticale (TTLSO)	F	Septoria tritici Puccinia recondita Puccinia striiformis	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		
32	Ireland	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	–	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400		
33	Czechia	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Puccinia striiformis Puccinia recondita Erysiphe graminis Fusarium + microdochium	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		
34	Czechia	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres) Ramularia collo-cygni Puccinia hordei	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		
35	Czechia	Winterr rye (SECCW)	F	Rhynchosporium secalis Puccinia recondita	foliar, spraying, overall	-/ BBCH 30-65 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		
36	Czechia	Winter triticale (TTLWI) Spring triticale (TTLSO)	F	Septoria tritici Puccinia recondita Puccinia striiformis	foliar, spraying, overall	-/ BBCH 30-69 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		
37	Czechia	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	-/ BBCH 50-73 spring	a) 1 b) 1	–	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400		

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use-No. (e)	**Member state(s)**	**Crop and/ or situation** **(crop destination / purpose of crop)**	**F, Fn, Fpn G, Gn, Gpn or I**	**Pests or Group of pests controlled** (additionally: developmental stages of the pest or pest group)	**Application**				**Application rate**			**PHI** (days)	**Remarks:** e.g. safener/synergist per ha e.g. recommended or mandatory tank mixtures (f)
					Method / Kind	Timing / Growth stage of crop (BBCH) & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season	Water L/ha min / max		
38	Poland	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Puccinia striiformis Puccinia recondita Erysiphe graminis Fusarium + microdochium	foliar, spraying, overall	- / BBCH 30-69 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		Range of rates 0.6-0.8 L/ha
39	Poland	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres)	foliar, spraying, overall	- / BBCH 30-65 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		Range of rates 0.6-0.8 L/ha
40	Poland	Winter triticale (TTLWI) Spring triticale (TTLSO)	F	Septoria tritici Puccinia recondita Puccinia striiformis	foliar, spraying, overall	- / BBCH 30-69 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		Range of rates 0.6-0.8 L/ha
41	Poland	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	- / BBCH 50-73 spring	a) 1 b) 1	–	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400		Range of rates 0.6-0.7 L/ha
42	Slovakia	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Puccinia striiformis Puccinia recondita Fusarium + microdochium	foliar, spraying, overall	- / BBCH 30-69 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		Range of rates 0.6-0.8 L/ha
43	Slovakia	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres)	foliar, spraying, overall	- / BBCH 30-65 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		Range of rates 0.6-0.8 L/ha
44	Slovakia	Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)	F	Sclerotinia sclerotiorum Alternaria spp.	foliar, spraying, overall	- / BBCH 50-73 spring	a) 1 b) 1	–	a) 0.7 L/ha b) 0.7 L/ha	a) 175 b) 175	100-400		Range of rates 0.6-0.7 L/ha
45	Hungary	Winter wheat (TRZAW) Spring wheat (TRZAS)	F	Septoria tritici Drechslera tritici-repentis (DTR) Puccinia striiformis Puccinia recondita Fusarium + microdochium	foliar, spraying, overall	- / BBCH 30-69 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		Range of rates 0.6-0.8 L/ha
46	Hungary	Winter barley (HORVW) Spring barley (HORVS)	F	Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres)	foliar, spraying, overall	- / BBCH 30-65 spring	a) 1 b) 1	–	a) 0.8 L/ha b) 0.8 L/ha	a) 200 b) 200	100-400		Range of rates 0.6-0.8 L/ha

~~1~~	~~2~~	~~3~~	~~4~~	~~5~~	~~6~~	~~7~~	~~8~~	~~9~~	~~10~~	~~11~~	~~12~~	~~13~~	~~14~~
~~**Use-No.**~~ ~~(e)~~	~~**Member state(s)**~~	~~**Crop and/ or situation**~~ ~~**(crop destination / purpose of crop)**~~	~~**F, Fn, Fpn G, Gn, Gpn or I**~~	~~**Pests or Group of pests controlled**~~ ~~(additionally: developmental stages of the pest or pest group)~~	~~**Application**~~				~~**Application rate**~~			~~**PHI**~~ ~~(days)~~	~~**Remarks:**~~ ~~e.g. safener/synergist per ha~~ ~~e.g. recommended or mandatory tank mixtures~~ ~~(f)~~
					~~Method / Kind~~	~~Timing / Growth stage of crop (BBCH) & season~~	~~Max. number a) per use b) per crop/ season~~	~~Min. interval between applica-tions (days)~~	~~kg, L product / ha a) max. rate per appl. b) max. total rate per crop/ season~~	~~g, kg as/ha a) max. rate per appl. b) max. total rate per crop/ season~~	~~Water L/ha min / max~~		
~~47~~	~~Hungary~~	~~Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)~~	~~F~~	~~Sclerotinia sclerotiorum Alternaria spp.~~	~~foliar, spraying, overall~~	~~-/ BBCH 50-73 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.7 L/ha b) 0.7 L/ha~~	~~a) 175 b) 175~~	~~100-400~~		~~Range of rates 0.6-0.7 L/ha~~
~~52~~	~~Slovenia~~	~~Winter wheat (TRZAW) Spring wheat (TRZAS)~~	~~F~~	~~Septoria tritici Puccinia striiformis Puccinia recondita Fusarium + microdochium~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~53~~	~~Slovenia~~	~~Winter barley (HORVW) Spring barley (HORVS)~~	~~F~~	~~Rhynchosporium secalis Helminthosporium gramineum (Pyrenophora teres)~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~54~~	~~Slovenia~~	~~Triticale (TTLSS)~~	~~F~~	~~Puccinia recondita Puccinia striiformis~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-69 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		
~~55~~	~~Slovenia~~	~~Winter oilseed rape (BRSNW) Spring oilseed rape (BRSNS)~~	~~F~~	~~Sclerotinia sclerotiorum Alternaria spp.~~	~~foliar, spraying, overall~~	~~-/ BBCH 50-73 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.7 L/ha b) 0.7 L/ha~~	~~a) 175 b) 175~~	~~100-400~~		
~~169~~	~~Slovenia~~	~~Winterr rye (SECCW)~~	~~F~~	~~Rhynchosporium secalis Puccinia recondita~~	~~foliar, spraying, overall~~	~~-/ BBCH 30-65 spring~~	~~a) 1 b) 1~~	~~–~~	~~a) 0.8 L/ha b) 0.8 L/ha~~	~~a) 200 b) 200~~	~~100-400~~		