

FINAL REGISTRATION REPORT

Part B

Section 3

Efficacy Data and Information

Concise summary

Product code: CHR/F/PROTAZO 375 SC

Product name(s): Claro 375 SC / Kajman 375 SC

Chemical active substance(s):

Prothioconazole 175 g/L

Azoxystrobin 200 g/L

Central Zone

Zonal Rapporteur Member State: Poland

CORE ASSESSMENT

(authorization)

Applicant: Innvigo Sp. z o.o.

Submission date: August 2022

MS Finalisation date: 05/09/2022

Version history

When	What
May 2021	Dossier sent for evaluation
December 2021	Applicant updated dRR on the zRMS request
January 2022	zRMS finalised evaluation
April 2022	Final version prepared by zRMS after Commenting period
September 2022	Update

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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. The parts of the text amended or added by the zRMS evaluator are highlighted in grey and the parts struck off are visibly marked with the grey font.
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3.1 Summary and conclusions of zRMS on Section 3: Efficacy (KCP 6)

Abstract

<p>zRMS</p> <p>The submitted efficacy data (reports from field trials) fulfil requirements and conditions determined in the EPPO guidelines, the Commission Regulation (EU) No 545/2011 of 10 June 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards the data requirements for plant protection products. The reports and data were submitted to support the evaluation for the authorization CHR/F/PROTAZO 375 SC.</p> <p>CHR/F/PROTAZO 375 SC contains 175 g/L of prothioconazole and 200 g/L azoxystrobin as active substances and is formulated as a suspension concentrate (SC). The plant protection product is used in winter wheat, winter triticale, spring barley, winter oilseed rape for the control of a wide range of diseases at a dose rate of 1,0 l/ha one or two applications in a season.</p> <p>The applicant submitted 144 reports from trials conducted in different regions of Poland and also trials conducted in the Czech Republic, Germany, where cereals and oilseed rape are grown commercially. CHR/F/PROTAZO 375 SC showed similar or higher levels of disease control compared with the reference products.</p>	
winter wheat, at a dose of 1,0 l/ha, once application per season	PSDCHE, FUSASP, ERYSGR, PYRNTR, PUCCRE, SEPTTR, FUSACU, LEPTNO, PUCSSI
winter wheat, at a dose of 1,0 l/ha, twice application per season	ERYSGR, SEPTTR, RHIZCE
winter triticale, at a dose of 1,0 l/ha, once application per season	FUSASP, ERYSGR, PYRNTR, PUCCRE, SEPTTR, RHYNSE, FUSACU, LEPTNO, PUCSSI
winter triticale, at a dose of 1,0 l/ha, twice application per season	ERYSGR, SEPTTR, RHIZCE
spring barley at a dose of 1,0 l/ha, once application per season	FUSACU
spring barley at a dose of 1,0 l/ha, twice application per season	PUCCHD, PYRNTE, ERYSGR, RHYNSE
winter oilseed rape at a dose of 1,0 l/ha, once application per season	SCLESC, ALTEBA, VERTLO
<p>Moreover, the number of trials for the following major disease/crop combination is quite low and are considered insufficient:</p>	

- winter wheat (once application per season): PUCCSI, RHIZCE
- winter triticale (once application per season): PUCCSI, RHIZCE
- spring barley (twice application per season): RAMUCC
- winter oilseed rape (once application per season): BOTRCI

Results from efficacy trials demonstrate that CHR/F/PROTAZO 375 SC is a good alternative to standard fungicides for the control of several diseases in winter wheat, winter triticale, spring barley and winter oilseed rape.

It is proposed to maintain the resistance management strategy of CHR/F/PROTAZO 375 SC recommended by the FRAC.

CHR/F/PROTAZO 375 SC was safe to the crops on which it was applied as no phytotoxicity symptoms were observed in the efficacy tests. The product did not cause any negative impact on the yield of winter wheat, winter triticale, spring barley and winter oilseed rape in the presence of diseases. No particular problems are linked to CHR/F/PROTAZO 375 SC use in succeeding and adjusted crops, when product have been used in accordance with the label recommendations.

According to the above, the plant protection product CHR/F/PROTAZO 375 SC can be approved to use according to the table of intended uses for CHR/F/PROTAZO 375 SC. The evaluation was carried out in accordance with the Uniform Principles.

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

GAP rev. , date: **2021-10-31**

PPP product name: Claro 375 SC/ Kajman 375 SC Formulation type: SC^(a, b)
product code: CHR/F/PROTAZO

Active substance 1: prothioconazol Conc. of as 1: 175 g/l^(c)
Active substance 2: azoxystrobin Conc. of as 2: 200 g/l^(c)
Active substance 3: - Conc. of as 3: -
Safener: - Conc. of safener: -^(c)
Synergist: - Conc. of synergist: -^(c)

Applicant: Innvigo Sp. z o.o. Professional use: ☒
Zone(s): Central^(d) Non professional use: ☐

Verified by MS: **noyes**

Field of use: fungicide

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 (f)	ZRM's Conclusion
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	kg or L product / ha a) max. rate per appl. b) max. total rate per crop/season	g or 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	PL	Winter wheat (TRZAW)	F	<i>Oculimacula yallundae</i>	Spray, medium sprayer	Spring BBCH 25-30-32	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	35	A
2	PL	Winter wheat (TRZAW)	F	<i>Blumeria graminis</i>	Spray, medium sprayer	Spring BBCH 25-61 30-59	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	35	A
3	PL	Winter wheat (TRZAW)	F	<i>Fusarium spp.</i>	Spray, medium sprayer	Spring BBCH 25-32	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	35	A
4	PL	Winter wheat (TRZAW)	F	<i>Pyrenophora tritici repentis</i>	Spray, medium sprayer	Spring BBCH 39-49	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	35	A
5	PL	Winter wheat (TRZAW)	F	<i>Puccinia recondita</i>	Spray, medium sprayer	Spring BBCH 39-49	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	35	A
6	PL	Winter wheat (TRZAW)	F	<i>Puccinia striiformis</i>	Spray, medium	Spring BBCH 39-49	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175	200-300	35	A

					sprayer					kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO				
7	PL	Winter wheat (TRZAW)	F	<i>Mycosphaerella graminicola</i>	Spray, medium sprayer	Spring BBCH 39-49	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		A
8	PL	Winter wheat (TRZAW)	F	<i>Mycosphaerella graminicola</i>	Spray, medium sprayer	Spring BBCH 31-39; BBCH 49-59	a)1 b)2	min. 21	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.4 kg a.s./ha AZX + 0.35 kg a.s./ha PROTIO	200- 300	35		A
9	PL	Winter wheat (TRZAW)	F	<i>Rhizoctonia cerealis</i>	Spray, medium sprayer	Spring BBCH 39-49 25-32	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		A
10	PL	Winter wheat (TRZAW)	F	<i>Blumeria graminis</i>	Spray, medium sprayer	Spring BBCH 31-39; BBCH 49-59	a)1 b)2	min. 21	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.4 kg a.s./ha AZX + 0.35 kg a.s./ha PROTIO	200- 300	35		A
11	PL	Winter wheat (TRZAW)	F	<i>Septoria nodorum/Phaeosphaeria nodorum</i>	Spray, medium sprayer	Spring BBCH 61-69	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha	200- 300	35		A

										PROTIO				
12	PL	Winter wheat (TRZAW)	F	<i>Fusarium culmorum</i>	Spray, medium sprayer	Spring BBCH 61-69	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	35		A
13	PL	Winter triticales (TTLWI)	F	<i>Blumeria graminis</i>	Spray, medium sprayer	Spring BBCH 25-61 30-59	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	35		A
14	PL	Winter triticales (TTLWI)	F	<i>Blumeria graminis</i>	Spray, medium sprayer	Spring BBCH 25-32 31-39 BBCH 39-49 49-59	a)1 b)2	n/a min. 21	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.4 kg a.s./ha AZX + 0.35 kg a.s./ha PROTIO	200-300	35		A
15	PL	Winter triticales (TTLWI)	F	<i>Fusarium spp.</i>	Spray, medium sprayer	Spring BBCH 25-32	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	35		A
16	PL	Winter triticales (TTLWI)	F	<i>Pyrenophora tritici repentis</i>	Spray, medium sprayer	Spring BBCH 39-49	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	35		A
17	PL	Winter triticales (TTLWI)	F	<i>Puccinia recondita</i>	Spray, medium	Spring BBCH 39-49	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175	200-300	35		A

					sprayer					kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO				
18	PL	Winter triticales (TTLWI)	F	<i>Puccinia striiformis</i>	Spray, medium sprayer	Spring BBCH 39-49	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		A
19	PL	Winter triticales (TTLWI)	F	<i>Rhynchosprum secalis</i>	Spray, medium sprayer	Spring BBCH 30-59	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		A
20	PL	Winter triticales (TTLWI)	F	<i>Rhizoctonia cerealis</i>	Spray, medium sprayer	Spring BBCH 30-59 25-32	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		A
21	PL	Winter triticales (TTLWI)	F	<i>Mycosphaerella graminicola</i>	Spray, medium sprayer	Spring BBCH 31-59	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		A
22	PL	Winter triticales (TTLWI)	F	<i>Mycosphaerella graminicola</i>	Spray, medium sprayer	Spring BBCH 31-39; BBCH 49-59	a)1 b)2	min. 21	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.4 kg a.s./ha	200- 300	35		A

										AZX + 0.35 kg a.s./ha PROTIO				
23	PL	Winter triticale (TTLWI)	F	<i>Septoria nodorum/Phaeosphaeria nodorum</i>	Spray, medium sprayer	Spring BBCH 61-69	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		A
24	PL	Winter triticale (TTLWI)	F	<i>Fusarium culmorum</i>	Spray, medium sprayer	Spring BBCH 61-69	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		A
25	PL	Spring barley (HORVS)	F	<i>Erysiphe graminis</i>	Spray, medium sprayer	Spring BBCH 29-37; BBCH 49-59	a)1 b)2	min. 21	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.4 kg a.s./ha AZX + 0.35 kg a.s./ha PROTIO	200- 300	35		A
26	PL	Spring barley (HORVS)	F	<i>Pyrenophora teres</i>	Spray, medium sprayer	Spring BBCH 29-37; BBCH 49-59	a)1 b)2	min. 21	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.4 kg a.s./ha AZX + 0.35 kg a.s./ha PROTIO	200- 300	35		A
27	PL	Spring barley (HORVS)	F	<i>Rhynchosporium secalis</i>	Spray, medium sprayer	Spring BBCH 29-37; BBCH 49-59	a)1 b)2	min. 21	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.4 kg a.s./ha AZX + 0.35 kg a.s./ha PROTIO	200- 300	35		A
28	PL	Spring barley (HORVS)	F	<i>Ramularia collo-cygni</i>	Spray, medium sprayer	Spring BBCH 29-37; BBCH 49-59	a)1 b)2	min. 21	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		N

										b) 0.4 kg a.s./ha AZX + 0.35 kg a.s./ha PROTIO				
29	PL	Spring barley (HORVS)	F	<i>Puccinia hordei</i>	Spray, medium sprayer	Spring BBCH 29-37; BBCH 49-59	a)1 b)2	min. 21	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.4 kg a.s./ha AZX + 0.35 kg a.s./ha PROTIO	200- 300	35		A
30	PL	Spring barley (HORVS)	F	<i>Fusarium culmorum</i>	Spray, medium sprayer	Spring BBCH 49-51	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	35		A
31	PL	Winter oilseed rape (BRSNW)	F	<i>Sclerotinia sclerotiorum</i>	Spray, medium sprayer	Spring BBCH 59-65	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	56		A
32	PL	Winter oilseed rape (BRSNW)	F	<i>Verticillium longisporum</i>	Spray, medium sprayer	Spring BBCH 59-65	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	56		A
33	PL	Winter oilseed rape (BRSNW)	F	<i>Alternaria brassicae</i>	Spray, medium sprayer	Spring BBCH 65-69	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200- 300	56		A
34	PL	Winter oilseed	F	<i>Botrytis cinerea</i>	Spray,	Spring	a)1	n/a	a) 1.0 l/ha	a) 0.2 kg a.s./ha	200-	56		N

Product code: CHR/F/PROTAZO
Product name: Claro 375 SC / Kajman 375 SC
Part B – Section 3 - Core Assessment
Applicant version

[illegible]

Minor uses according to Article 51 (zonal uses)													
37	PL	Spring rye (SECCS)	F	<i>Oculimacula yallundae</i> , <i>Fusarium spp.</i> , <i>Blumeria graminis</i> , <i>Rhynchosporium secalis</i> , <i>Pyrenophora tritici repentis</i> , <i>Puccinia recondite</i> , <i>Puccinia striiformis</i> , <i>Septoria nodorum</i> / <i>Phaeosphaeria nodorum</i> , <i>Fusarium culmorum</i>	Spray, medium sprayer	Spring BBCH 25-69	a)1 b)2	min. 14	a) 1.0 l/ha b) 2.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.4 kg a.s./ha AZX + 0.35 kg a.s./ha PROTIO	200-300	35	
38	PL	Spring oilseed rape (BRSNS)	F	<i>Sclerotinia sclerotiorum</i> , <i>Alternaria brassicace</i> , <i>Leptosphaeria maculans</i>	Spray, medium sprayer	Spring BBCH 59-69	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	56	
39	PL	Common sunflower (HELAN)	F	<i>Botrytis cinerea</i> , <i>Sclerotinia sclerotiorum</i> <i>Erysiphe cichoracearum</i> , <i>Alternaria helianthi</i> , <i>Leptosphaeria lindquistii</i>	Spray, medium sprayer	Spring BBCH 18-69, the first symptoms of infection	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	56	
40	PL	Soybean (GLXMA)	F	<i>Fusarium spp.</i> , <i>Fusarium oxysporum</i> , <i>Septoria glycines</i> , <i>Sclerotinia sclerotiorum</i>	Spray, medium sprayer	Spring BBCH 12-69, the first symptoms of infection	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO	200-300	56	
41	PL	Opium poppy (PAPSO)	F	<i>Sclerotinia sclerotiorum</i> <i>Botrytis cinerea</i>	Spray, medium sprayer	Spring BBCH 59-69, the first symptoms of infection	a)1 b)1	n/a	a) 1.0 l/ha b) 1.0 l/ha	a) 0.2 kg a.s./ha AZX + 0.175 kg a.s./ha PROTIO b) 0.2 kg a.s./ha AZX + 0.175	200-300	56	

[illegible]

CHR/F/PROTAZO 375 SC - Claro 375 SC/ Kajman 375 SC

Remarks table heading:	(a)	e.g. wettable powder (WP), emulsifiable concentrate (EC), granule (GR)	(d)	Select relevant
	(b)	Catalogue of pesticide formulation types and international coding system CropLife International Technical Monograph n°2, 6th Edition Revised May 2008	(e)	Use number(s) in accordance with the list of all intended GAPs in Part B, Section 0 should be given in column 1
	(c)	g/kg or g/l	(f)	No authorization possible for uses where the line is highlighted in grey, Use should be crossed out when the notifier no longer supports this use.
Remarks columns:	1	Numeration necessary to allow references	7	Growth stage at first and last treatment (BBCH Monograph, Growth Stages of Plants, 1997, Blackwell, ISBN 3-8263-3152-4), including where relevant, information on season at time of application
	2	Use official codes/nomenclatures of EU Member States	8	The maximum number of application possible under practical conditions of use must be provided.
	3	For crops, the EU and Codex classifications (both) should be used; when relevant, the use situation should be described (e.g. fumigation of a structure)	9	Minimum interval (in days) between applications of the same product
	4	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	10	For specific uses other specifications might be possible, e.g.: g/m³ in case of fumigation of empty rooms. See also EPPO-Guideline PP 1/239 Dose expression for plant protection products.
	5	Scientific names and EPPO-Codes of target pests/diseases/ weeds or, when relevant, the common names of the pest groups (e.g. biting and sucking insects, soil born insects, foliar fungi, weeds) and the developmental stages of the pests and pest groups at the moment of application must be named.	11	The dimension (g, kg) must be clearly specified. (Maximum) dose of a.s. per treatment (usually g, kg or L product / ha).
	6	Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plants - type of equipment used must be indicated.	12	If water volume range depends on application equipments (e.g. ULVA or LVA) it should be mentioned under “application: method/kind”.
			13	PHI - minimum pre-harvest interval
			14	Remarks may include: Extent of use/economic importance/restrictions
* 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 applicat				

Column 15: zRMS conclusion.

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

3.2 Efficacy data (KCP 6)

Introduction

This document summarizes the information related to the efficacy of the product CHR/F/PROTAZO containing active substances azoxystrobin and prothioconazole.

CHR/F/PROTAZO applies in the Central Registration Zone for the registration of in winter wheat, winter triticale, spring barley and winter oilseed rape at spring applied once or twice a per season:

- winter wheat: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,
 - winter triticale: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,
 - spring barley: once per season at BBCH 49-51 or twice per season at A: BBCH 29-37, B: BBCH 49-59,
 - winter oilseed rape: once per season at BBCH 59-69,
- at the maximum rate of 200 g a.s./ha azoxystrobin and 175 g a.s./ha prothioconazole per application for the the control of most important fungal diseases in winter wheat, winter triticale, spring barley and winter oilseed rape.

General information:

Description of the plant protection product

Marketing name:

product submitted to registration under three different marketing names: Claro 375 SC/ Kajman 375 SC

Formulants content:

The information concerning ingredients of product CHR/F/PROTAZO are included in the confidential part of the registration dossier: Registration Report – Part C.

Formulation of use:

SC – Suspension concentrate

General information on the plant protection product:

CHR/F/PROTAZO is to be applied in spring:

- winter wheat: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,
- winter triticale: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,
- spring barley: once per season at BBCH 49-51 or twice per season at A: BBCH 29-37, B: BBCH 49-59,
- winter oilseed rape: once per season at BBCH 59-69.

The suggested dose of the product:

Used solo:

1.0 L/ha once a season in winter wheat, winter triticale, winter barley, ~~rye and maize~~ winter oilseed rape which are corresponding to 200 g a.s./ha azoxystrobin and 175 g a.s./ha prothioconazole.

CHR/F/PROTAZO containing prothioconazole and azoxystrobin as the active substance is prepared for the use in agricultural practice as a fungicide in the form SC – Suspension concentrate.

Information on the composition of product CHR/F/PROTAZO are included in the confidential part of the registration dossier: Registration Report – Part C.

Description of active substances

The descriptions of active substances will be provided in Section 1,2 4 to 8 and Part C.

Mode of action

Active substance:

Prothioconazole 175 g/l

Chemical name (IUPAC): (R,S) 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione

CAS No.: 178928-70-6

According to Prothioconazole_DAR_03_Vol_3_B1-5_public pdf

DMI fungicides act by inhibiting the Cytochrome P450-dependent C-14 demethylase reaction in fungal sterol biosynthesis. Blockage of the sterol biosynthesis leads to a reduction in the normal sterol pathway end products and an accumulation of other abnormal sterols. It is unclear which of these effects is responsible for impairment of membrane function and limitation of fungal growth.

Azoxystrobin 200 g/L

methyl (E)-2-{2[6-(2-cyanophenoxy)pyrimidin-4- yloxy]phenyl}-3-methoxyacrylate (azoxystrobin)

CAS no 131860-33-8

Chemical group: methoxy-acrylates

According to DAR (DRAFT ASSESMENT REPORT B.3.1.1) azoxystrobin is a broad spectrum fungicide for the control of many plant diseases. It has the same biochemical mode of action as the naturally occurring strobilurins and is structurally related to them. Azoxystrobin is a β -methoxyacrylate. It is included in the same chemical class as a trifloxystrobin, dimoxystrobin, fluxastrobin, picoxystrobin, pyraclostrobin and trifloxystrobin. The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. It inhibits spore germination and the development for control of diseases from Ascomycetes, Basidiomycetes, Deuteromycetes and Oomycetes. Azoxystrobin acts by inhibiting electron transport consequently inhibiting fungal respiration (DAR B.3.1.2)

Table 3.2-1: Details of the active substances

Active substance	Prothioconazole	Azoxystrobin	Active substance 3
Concentration (Unit: g/kg or g/L...)	175 g/L	200 g/L	n/a
Chemical group	triazole	methoxy-acrylates	n/a
Mode of action	Inhibitor of fungal sterols biosynthesis (DMI)	acts by inhibiting electron transport consequently inhibiting fungal respiration	n/a
Biological action	Prothioconazole is a systemic (loco and leaf) fungicide that interferes with fungal sterol biosynthesis resulting in the impairment of membrane function and limitation of fungal growth. Prothioconazole is recommended for the control of steam, leaf and ear diseases of cereals including <i>Pseudocercospora herpotrichoides</i> , <i>Erysiphe graminis</i> , <i>Puccinia striiformis</i> ,	The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. It inhibits spore germination and the development for control of diseases from <i>Ascomycetes</i> , <i>Basidiomycetes</i> , <i>Deuteromycetes</i> and	n/a

Active substance	Prothioconazole	Azoxystrobin	Active substance 3
	<i>Puccinia recondita</i> , <i>Septoria tritici</i> , <i>Pyrenophora tritici repentis</i> , <i>Leptosphaeria nodorum</i> , <i>Rhizoctonia cerealis</i> , <i>Microdochium nivale</i> , <i>Fusarium spp.</i> , <i>Rhynchosporium secalis</i> , <i>Pyrenophora teres</i> , <i>Puccinia hordei</i> , <i>Pseudocercospora herpotrichoides</i> and oilseed rape diseases including <i>Sclerotinia sclerotiorum</i> , <i>Leptosphaeria maculans</i> , <i>Pyrenopeziza brassicae</i> , <i>Cylindrosporium spp.</i> , <i>Botrytis cinerea</i> , <i>Alternaria brassicae</i> .	<i>Oomycetes</i> . Azoxystrobin acts by inhibiting electron transport consequently inhibiting fungal respiration	

Comments of zRMS:	<p>This report summarizes the information concerning the efficacy of the plant protection product CHR/F/PROTAZO 375 SC. The product contains 175 g/L of prothioconazole and 200 g/L azoxystrobin as active substances and is formulated as a suspension concentrate (SC). It is used as fungicide in cereals and oilseed rape. The reports and data were submitted to support of the evaluation of the authorization CHR/F/PROTAZO 375 SC in Central Zone: Poland.</p> <p>The active substance prothioconazole is included in the Annex to Commission Implementing Regulation (EU) No 540/2011 containing the active substances approved for use in plant protection products under Regulation (EC) No 1107/2009 with the expiration of approval on 31/07/2022.</p> <p>According to general provisions applying to all substances listed in the Annex to commission Implementing Regulation (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No1107/2009 of the European Parliament and of the Council as regards the list of approved active substances. Specific provisions of Regulation (EU) No 540/2011 were as follows:</p> <p>PART A</p> <p>Only uses as fungicide may be authorised.</p> <p>PART B</p> <p>For the implementation of the uniform principles as referred to in Article 29(6) of Regulation (EC) No 1107/2009, the conclusions of the review report on prothioconazole, and in particular Appendices I and II thereof, as finalized in the Standing Committee on the Food Chain and Animal Health on 22 January 2008 shall be taken into account. In this overall assessment Member States must pay particular attention to:</p> <ul style="list-style-type: none"> — the operator safety in spray applications. Conditions of use shall include adequate protective measures, — the protection of aquatic organisms. Risk mitigation measures such as buffer zones shall be applied, where appropriate, — the protection of birds and small mammals. Risk mitigation measures shall be applied, where appropriate. Conditions of use shall include risk mitigation measures, where appropriate. <p>The concerned Member States shall request the submission of:</p> <ul style="list-style-type: none"> — information to allow the assessment of consumer exposure to triazole metabolite derivatives in primary crops, rotational crops, and products of animal origin,
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	<ul style="list-style-type: none"> — a comparison of the mode of action of prothioconazole and the triazole metabolite derivatives to allow the assessment of the toxicity resulting from the combined exposure to these compounds, — information to further address the long-term risk to granivorous birds and mammals arising from the use of prothioconazole as a seed treatment. They shall ensure that the notifier at whose request prothioconazole has been included in this Annex provide such studies to the Commission within two years from the approval <p>The active substance azoxystrobin is included in the Annex to Commission Implementing Regulation (EU) No 540/2011 containing the active substances approved for use in plant protection products under Regulation (EC) No 1107/2009 with the expiration of approval on 31/12/2024.</p> <p>According to general provisions applying to all substances listed in the Annex to commission Implementing Regulation (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No1107/2009 of the European Parliament and of the Council as regards the list of approved active substances. Specific provisions of Regulation (EU) No 540/2011 were as follows:</p> <p>PART A</p> <p>Only uses as fungicide may be authorised.</p> <p>PART B</p> <p>For the implementation of the uniform principles, as referred to in Article 29(6) of Regulation (EC) No 1107/2009, the conclusions of the review report on azoxystrobin and in particular Appendices I and II thereof, as finalised in the Standing Committee on the Food Chain and Animal Health on 17 June 2011 shall be taken into account.</p> <p>In this overall assessment Member States shall pay particular attention to:</p> <p>(1)the fact that the specification of the technical material as commercially manufactured must be confirmed and supported by appropriate analytical data. The test material used in the toxicity dossiers should be compared and verified against this specification of the technical material;</p> <p>(2)the potential for groundwater contamination, when the active substance is applied in regions with vulnerable soil and/or climatic conditions;</p> <p>(3)the protection of aquatic organisms.</p> <p>The Member States must ensure that the conditions of authorisation include risk mitigation measures, where appropriate.</p> <p>The Member States concerned shall request the submission of confirmatory information as regards the risk assessment on groundwater and aquatic organisms. The notifier shall submit to the Member States, the Commission and the Authority such information by 31 December 2013.</p> <p>Appendix 1 of this document contains the list of data considered in support of the the evaluation.</p> <p>Table 3.1-1 of this document contains the table of intended uses for CHR/F/PROTAZO 375 SC.</p>
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Description of the plant protection product

Formulation of use:

SC – Suspension concentrate

CHR/F/PROTAZO containing 175 g/l prothioconazole and 200g/L azoxystrobin as the active substances is prepared for the use in agricultural practice as a fungicide in the form SC – Suspension concentrate.

CHR/F/PROTAZO is to be applied in spring postemergence:

- winter wheat: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,

- winter triticale: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,
- spring barley: once per season at BBCH 49-51 or twice per season at A: BBCH 29-37, B: BBCH 49-59,
- winter oilseed rape: once per season at BBCH 59-69.

Table 3.2-2: Simplified table of currently registered uses and requested uses for the product code.

Uses		Member State	Currently registered rate(s)		Comments / Other relevant details on GAPs
Crop(s)	Target(s)		Max rate per appl.	Max rate per crop/season	
Winter wheat	<i>Fusarium sp.</i> , <i>Oculimacula yallundae</i> , <i>Blumeria graminis</i> , <i>Pyrenophora tritici-repentis</i> , <i>Mycosphaerella graminicola</i> , <i>Puccinia recondita</i> , <i>Puccinia striiformis</i> , <i>Fusarium culmorum</i> , <i>Septoria nodorum</i>	PL, CZ	1	1	
Winter triticale	<i>Fusarium sp.</i> , <i>Blumeria graminis</i> , <i>Pyrenophora tritici-repentis</i> , <i>Mycosphaerella graminicola</i> , <i>Puccinia recondita</i> , <i>Puccinia striiformis</i> , <i>Rhynchosprum secalis</i> , <i>Fusarium culmorum</i> , <i>Septoria nodorum</i>	PL, CZ	1	1	
Spring barley	<i>Erysiphe graminis</i> , <i>Puccinia hordei</i> , <i>Rhynchosprum secalis</i> , <i>Pyrenophora teres Drechsler</i> , <i>Fusarium culmorum</i>	PL, CZ	1	1	
Oilseed rape	<i>Alternaria alternata</i> , <i>Sclerotinia sclerotiorum</i> , <i>Verticillium longisporum</i>	PL, CZ	1	1	

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

Description of the target pests

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

EPPO code	Scientific name	Common name*
FUSASP	<i>Fusarium sp.</i>	n/a
PSDCHA	<i>Oculimacula yallundae</i>	n/a
ERYSGR	<i>Blumeria graminis</i>	n/a
PYRNTR	<i>Pyrenophora tritici-repentis</i>	n/a
SEPTTR	<i>Mycosphaerella graminicola</i>	n/a
PUCCRE	<i>Puccinia recondita</i>	n/a
PUCCST	<i>Puccinia striiformis</i>	n/a
FUSACU	<i>Fusarium culmorum</i>	n/a
RHYNSE	<i>Rhynchosprum secalis</i>	n/a
PUCCHD	<i>Puccinia hordei</i>	n/a
PYRNTE	<i>Pyrenophora teres Drechsler</i>	n/a
LEPTNO	<i>Phaeosphaeria nodorum</i>	n/a
ALTEBA	<i>Alternaria brassicace</i>	n/a
SCLSC	<i>Sclerotinia sclerotiorum</i>	n/a
VERTLO	<i>Verticillium longisporum</i>	n/a

* 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
Winter wheat	PL, CZ	-	<i>Fusarium sp.</i>	PL, CZ	-
			<i>Oculimacula yallundae</i>	PL, CZ	-
			<i>Erysiphe graminis</i>	PL, CZ	-
			<i>Pyrenophora tritici-repentis</i>	PL, CZ	-
			<i>Mycosphaerella graminicola</i>	PL, CZ	-
			<i>Puccinia recondita</i>	PL, CZ	-
			<i>Puccinia striiformis</i>	PL, CZ	-
			<i>Fusarium culmorum</i>	PL, CZ	-
			<i>Septoria nodorum/Phaeosphaeria nodorum</i>	PL, CZ	-
Winter triticale	PL, CZ	-	<i>Fusarium sp.</i>	PL, CZ	-
			<i>Erysiphe graminis</i>	PL, CZ	-
			<i>Pyrenophora tritici-repentis</i>	PL, CZ	-
			<i>Mycosphaerella graminicola</i>	PL, CZ	-
			<i>Puccinia recondita</i>	PL, CZ	-
			<i>Puccinia striiformis</i>	PL, CZ	-
			<i>Rhynchosporium secalis</i>	PL, CZ	-
			<i>Fusarium culmorum</i>	PL, CZ	-
			<i>Septoria nodorum/Phaeosphaeria nodorum</i>	PL, CZ	-
Spring barley	PL, CZ	-	<i>Erysiphe graminis</i>	PL, CZ	-
			<i>Pyrenophora teres Drechsler</i>	PL, CZ	-
			<i>Puccinia hordei</i>	PL, CZ	-
			<i>Rhynchosporium secalis</i>	PL, CZ	-
			<i>Fusarium culmorum</i>	PL, CZ	-
Oilseed rape	PL, CZ	-	<i>Alternaria brassicace</i>	PL, CZ	-
			<i>Sclerotinia sclerotiorum</i>	PL, CZ	-
			<i>Verticillium longisporum</i>	-	PL, CZ

Compliance with the Uniform Principles

The overall assessment was performed according to the uniform principles. There were no deviations from the EPPO guidelines with the trials conducted in North-East EPPO and Maritime zones.

Information on trials submitted (3.1 Efficacy data)

The 139 trials (winter wheat 43 trials, winter triticale 37 trials, spring barley 40 trials, winter oilseed rape 19 trials) have been carried out in 2019, 2020 and 2021 in the North-East EPPO and Maritime zones within the Central registration zone to evaluate the efficacy of applied at the proposed label rate of 200 g a.s./ha azoxystrobin and 175 g a.s./ha prothioconazole for the diseases control in winter wheat, winter triticale, spring barley and winter oilseed rape (Table 3.2 6). Trials were conducted in the main winter wheat, winter triticale, spring barley and winter oilseed rape in the North-East EPPO and Maritime zones in Poland, Czech Republic and Germany.

Table 3.2-5: Presentation of trials efficacy trials

Winter wheat

Crop(s) *	Target(s)*	Country	Years	Type of trial**	Number of trials		GEP, non-GEP, official***	Comments (any other relevant information)
					(number of valid trials)			
					North- East zone			
Winter wheat	<i>Oculimacula yallundae</i>	Poland	2019	E	3(3)		GEP	
		Czech Republic	2019	E	2(2)		GEP	
		Poland	2020	E	1(1)		GEP	
		Czech Republic	2020	E	2(2)		GEP	
	TOTAL		2019-2020		8(8)			
Winter wheat	<i>Fusarium spp.</i>	Poland	2019	E	1(1)		GEP	
		Czech Republic	2019	E	2(2)		GEP	
		Poland	2020	E	3(3)		GEP	
		Czech Republic	2020	E	1(1)		GEP	
		Germany	2020	E	4(4)		GEP	
	TOTAL		2019-2020		11(11)			
Winter wheat - one application	<i>Blumeria graminis</i>	Poland	2019	E	3(3)		GEP	
		Czech Republic	2019	E	3(3)		GEP	
		Poland	2020	E	3(3)		GEP	
	TOTAL		2019-2020		9(9)			
Winter wheat - two application	<i>Blumeria graminis</i>	Czech Republic	2019	E	1(1)		GEP	
		Poland	2020	E	4(4)		GEP	
		Germany	2020	E	1(1)		GEP	
	TOTAL		2019-2020		6(6)			
Winter wheat	<i>Pyrenophora tritici repentis</i>	Poland	2019	E	3(3)		GEP	
		Czech Republic	2019	E	4(4)		GEP	
		Poland	2020	E	2(2)		GEP	
	TOTAL		2019-2020		9(9)			
Winter wheat	<i>Puccinia recondita</i>	Poland	2019	E	1(1)		GEP	

		Czech Republic	2019	E	4(4)		GEP	
		Poland	2020	E	1(1)		GEP	
		TOTAL	2019-2020		6(6)			
	<i>Puccinia striiformis</i>	Poland	2020	E	1(1)		GEP	
		Czech Republic	2020	E	2(2)		GEP	
	TOTAL		2020		3(3)			
Winter wheat - one application	<i>Mycosphaerella graminicola</i>	Poland	2019	E	2(2)		GEP	
		Czech Republic	2019	E	1(1)		GEP	
		Poland	2020	E	1(1)		GEP	
		Czech Republic	2020	E	2(2)		GEP	
		Germany	2020	E	1(1)		GEP	
	TOTAL		2019-2020		7(7)			
Winter wheat - two application	<i>Mycosphaerella graminicola</i>	Czech Republic	2019	E	1(1)		GEP	
		Poland	2019	E	3(3)		GEP	
		Germany	2020	E	1(1)		GEP	
		Poland	2020	E	3(3)		GEP	
	TOTAL		2019-2020		8(8)			
Winter wheat	<i>Fusarium culmorum</i>	Poland	2019	E	3(3)		GEP	
		Czech Republic	2019	E	1(1)		GEP	
		Poland	2020	E	1(1)		GEP	
		Czech Republic	2020	E	2(2)		GEP	
		Germany	2020	E	4(4)		GEP	
	TOTAL		2019-2020		11(11)			
Winter wheat	<i>Septoria nodorum/Phaeosphaeria nodorum</i>	Poland	2019	E	4(4)		GEP	
		Czech Republic	2019	E	1(1)		GEP	
		Czech Republic	2020	E	2(2)		GEP	
		Germany	2020	E	1(1)		GEP	
	TOTAL		2019-2020		8(8)			
Winter wheat	<i>Rhizoctonia cerealis</i>	Poland	2020	E	3(3)		GEP	
	TOTAL		2020		3(3)			
TOTAL			2019-2020		89(89)			

* 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.

Winter triticales

Crop(s) *	Target(s)*	Country	Years	Type of trial**	Number of trials		GEP, non-GEP, official***	Comments (any other relevant information)
					(number of valid trials)			
					North- East zone			
Winter triticales	<i>Fusarium spp.</i>	Poland	2019	E	1(1)		GEP	
		Poland	2020	E	4(4)		GEP	
		Germany	2020	E	1(1)		GEP	
	TOTAL	-	2019-2020	-	6(6)		-	-
Winter triticales - one application	<i>Blumeria graminis</i>	Poland	2020	E	5(5)		GEP	
		Czech Republic	2020	E	2(2)		GEP	
		Germany	2020	E	1(1)		GEP	
	TOTAL	-	2020	-	8(8)		-	-
Winter triticales - two application	<i>Blumeria graminis</i>	Czech Republic	2019	E	1(1)		GEP	
		Poland	2019	E	1(1)		GEP	
		Poland	2020	E	3(3)		GEP	
		Germany	2020	E	1(1)		GEP	
	TOTAL	-	2019-2020	-	6(6)		-	-
Winter triticales	<i>Pyrenophora tritici repentis</i>	Poland	2019	E	1(1)		GEP	
		Czech Republic	2019	E	1(1)		GEP	
		Poland	2020	E	4(4)		GEP	
	TOTAL	-	2019-2020	-	6(6)		-	-
Winter triticales	<i>Puccinia recondita</i>	Poland	2019	E	3(3)		GEP	
		Czech Republic	2019	E	1(1)		GEP	
		Poland	2020	E	1(1)		GEP	
		Germany	2020	E	3(3)		GEP	
	TOTAL	-	2019-2020	-	8(8)		-	-
Winter triticales	<i>Puccinia striiformis</i>	Poland	2020	E	1(1)		GEP	
		Germany	2020	E	1(1)		GEP	
	TOTAL	-	2020	-	2(2)		-	-
Winter triticales - one application	<i>Mycosphaerella graminicola</i>	Poland	2019	E	2(2)		GEP	
		Poland	2020	E	2(2)		GEP	
		Germany	2020	E	1(1)		GEP	
		Czech Republic	2020	E	3(3)		GEP	
	TOTAL	-	2019-2020	-	8(8)		-	-
Winter triticales - two application	<i>Mycosphaerella graminicola</i>	Poland	2019	E	1(1)		GEP	
		Czech Republic	2019	E	2(2)		GEP	
		Poland	2020	E	2(2)		GEP	
		Germany	2020	E	1(1)		GEP	
	TOTAL	-	2019-2020	-	6(6)		-	-

Winter triticale	<i>Rhynchosprum secalis</i>	Poland	2019	E	2(2)	!	GEP	!
!	!	Poland	2020	E	3(3)	!	GEP	!
!	!	Czech Republic	2020	E	1(1)	!	GEP	!
!	TOTAL	-	2019-2020	-	6(6)	!	-	!
Winter triticale	<i>Fusarium culmorum</i>	Poland	2019	E	1(1)	!	GEP	!
!	!	Czech Republic	2019	E	1(1)	!	GEP	!
!	!	Poland	2020	E	3(3)	!	GEP	!
!	!	Germany	2020	E	1(1)	!	GEP	!
!	TOTAL	-	2019-2020	-	6(6)	!	-	!
Winter triticale	<i>Septoria nodorum/Phaeosphaeria nodorum</i>	Poland	2019	E	1(1)	!	GEP	!
!	!	Czech Republic	2019	E	1(1)	!	GEP	!
!	!	Poland	2020	E	4(4)	!	GEP	!
!	!	Germany	2020	E	1(1)	!	GEP	!
!	TOTAL	-	2019-2020	-	7(7)	!	-	!
Winter triticale	<i>Rhizoctonia cerealis</i>	Poland	2020	E	2(2)	!	GEP	!
!	TOTAL	-	2020	-	2(2)	!	-	!
TOTAL	!	!	2019-2020	-	71(71)	!	-	!

* 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.

Spring barley

Crop(s) *	Target(s)*	Country	Years	Type of trial**	Number of trials		GEP, non-GEP, official***	Comments (any other relevant information)
					(number of valid trials)			
					North-East zone	-		
Spring barley	<i>Puccinia hordei</i>	Poland	2019	E	2(2)	-	GEP	-
	-	Czech Republic	2019	E	2(2)	-	GEP	-
	-	Czech Republic	2020	E	2(2)	-	GEP	-
	-	Germany	2020	E	1(1)	-	GEP	-
	-	Poland	2020	E	4(4)	-	GEP	-
	TOTAL	-	2019-2020	-	11(11)	-	-	-
Spring barley	<i>Pyrenophora teres</i>	Poland	2019	E	4(4)	-	GEP	-
	-	Czech Republic	2019	E	3(3)	-	GEP	-
	-	Czech Republic	2020	E	3(3)	-	GEP	-
	-	Germany	2020	E	2(2)	-	GEP	-
	-	Poland	2020	E	7(7)	-	GEP	-
	TOTAL	-	2019-2020	-	19(19)	-	-	-
Spring barley	<i>Blumeria graminis</i>	Poland	2020	E	5(5)	-	GEP	-
	-	Czech Republic	2020	E	2(2)	-	GEP	-
	-	Germany	2020	E	1(1)	-	GEP	-
	TOTAL	-	2020	-	8(8)	-	-	-
Spring barley	<i>Rhynchosporium secalis</i>	Poland	2019	E	3(3)	-	GEP	-
	-	Czech Republic	2019	E	2(2)	-	GEP	-
	-	Czech Republic	2020	E	2(2)	-	GEP	-
	-	Poland	2020	E	5(5)	-	GEP	-
	TOTAL	-	2019-2020	-	12(12)	-	-	-
Spring barley	<i>Fusarium culmorum</i>	Poland	2020	E	4(4)	-	GEP	-
	-	Poland	2021	E	4(4)	-	GEP	-
	TOTAL	-	2020-2021	-	8(8)	-	-	-
Spring barley	<i>Ramularia collo-cygni</i>	Germany	2020	E	2(2)	-	GEP	-
	TOTAL	-	2020	-	2(2)	-	-	-
TOTAL		-	2019-2021	-	60(60)	-	-	-

* 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.

Winter oilseed rape

Crop(s) *	Target(s)*	Country	Years	Type of trial**	Number of trials		GEP, non-GEP, official***	Comments (any other relevant information)
					(number of valid trials)			
					North- East zone	-		
Winter oilseed rape	<i>Sclerotinia sclerotiorum</i>	Poland	2019	E	2(2)	-	GEP	-
		Czech Republic	2019	E	1(1)	-	GEP	-
		Poland	2020	E	4(4)	-	GEP	-
		Germany	2020	E	2(2)	-	GEP	-
		Czech Republic	2020	E	1(1)	-	GEP	-
	TOTAL	-	2019-2020	-	10(10)	-	-	-
Winter oilseed rape	<i>Alternaria brassicae</i>	Poland	2019	E	2(2)	-	GEP	-
		Czech Republic	2019	E	1(1)	-	GEP	-
		Poland	2020	E	3(3)	-	GEP	-
		Germany	2020	E	4(4)	-	GEP	-
		Czech Republic	2020	E	2(2)	-	GEP	-
	TOTAL	-	2019-2020	-	12(12)	-	-	-
Winter oilseed rape	<i>Verticillium longisporum</i>	Poland	2019	E	2(2)	-	GEP	-
		Czech Republic	2019	E	1(1)	-	GEP	-
		Poland	2020	E	1(1)	-	GEP	-
		Czech Republic	2020	E	2(2)	-	GEP	-
	TOTAL	-	2019-2020	-	6(6)	-	-	-
Winter oilseed rape	<i>Botrytis cinerea</i>	Czech Republic	2019	E	1(1)	-	GEP	-
		Czech Republic	2020	E	1(1)	-	GEP	-
	TOTAL	-	2019-2020	-	2(2)	-	-	-
TOTAL		-	2019-2020	-	30(30)	-	-	-

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

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

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

Table 3.2-6: Presentation of reference standards used in trials efficacy trials

Crop(s)	Reference standard	Country(ies) where the product is registered ⁽¹⁾	Authorization number	Active substance(s)	Formulation		Registered application rate ⁽³⁾	Application rate in trials (per treatment)	Remark ⁽⁴⁾
					Type ⁽²⁾	Concentration of a.s.			
winter wheat, winter triticale, spring barley, winter oilseed rape	Makler 250 SE	Poland	R-207/2019 02.11.2017; R - 199/2019d 07.03.2019	azoxystrobin	SE - Suspo-Emulsion	250 g/l	1.0 l/ha	1.0 l/ha	
winter wheat, winter triticale, spring barley, winter oilseed rape	Azoxin 250 SE	Poland	R-205/2019 27.11.2017; R - 200/2019d 07.03.2019	azoxystrobin	SE - Suspo-Emulsion	250 g/l	1.0 l/ha	1.0 l/ha	

winter wheat, winter triticale	Delaro 325 S.C.	Poland	R-18/2016wu 20.05.2016; R- 353/2017d 14.07.2017	prothioconazole	SC - Suspension concentrate	175 g/l	1,0 l/ha	1,0 l/ha	-
				trifloxystrobin		150 g/l			
winter oilseed rape	Toledo Extra 430 SC	Poland	R-175/2016 19.08.2019; R- 696/2018d 30.11.2018	tebuconazole	SC - Suspension concentrate	430 g/l	0,75 l/ha	0,75 l/ha	-
spring barley	Elatus Era	Poland	R-229/2017 17.11.2017	benzowindylupyr	EC - Emulsifiable concentrate	75 g/l	1,0 l/ha	1,0 l/ha	-
				prothioconazole		150 g/l			
spring barley	Fandango 200 EC	Poland	R-10/2011 27.01.2011	fluoxastrobin	EC - Emulsifiable concentrate	100 g/l	1,0 l/ha	1,0 l/ha	-
				prothioconazole		100 g/l			
spring barley	Tazer 250 SC	Poland	R-48/2015 05.03.2015	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	-
spring barley	Delaro 325 S.C.	Czech Republic	no data	prothioconazole	SC - Suspension concentrate	175 g/l	0,75 l/ha	0,75 l/ha	-
				trifloxystrobin		150 g/l			
spring barley	Amistar	Czech Republic	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	0,8-1,0 l/ha	0,8-1,0 l/ha	-
spring barley	Proline	Germany	no data	prothioconazole 	EC - Emulsifiable concentrate	250 g/l 	0,8 l/ha	0,8 l/ha	-
spring barley	Azbany	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	-
spring barley	Elatus Era	Czech Republic	no data	benzowindylupyr	EC - Emulsifiable concentrate	75 g/l	1,0 l/ha	1,0 l/ha	-
				prothioconazole		150 g/l			
spring barley	Amistar	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	-
winter wheat	Delaro 325 S.C.	Czech Republic	no data	prothioconazole	SC - Suspension concentrate	175 g/l	1,0 l/ha	1,0 l/ha	-
				trifloxystrobin		150 g/l			
winter wheat	Amistar	Czech Republic	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	-
winter wheat	Proline	Germany	no data	prothioconazole 	EC - Emulsifiable concentrate	250 g/l 	0,8 l/ha	0,8 l/ha	-
winter wheat	Amistar	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	-
winter wheat	Azbany	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	-
winter wheat	Torero	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	-
winter triticale	Delaro 325 S.C.	Czech Republic	no data	prothioconazole	SC - Suspension concentrate	175 g/l	1,0 l/ha	1,0 l/ha	-
				trifloxystrobin		150 g/l			
winter triticale	Amistar	Czech Republic	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	-
winter triticale	Proline	Germany	no data	prothioconazole 	EC - Emulsifiable concentrate	250 g/l 	0,8 l/ha	0,8 l/ha	-

winter triticale	Amistar	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1.0 l/ha	1.0 l/ha	-
winter triticale	Input Classic	Germany	no data	prothioconazole	EC - Emulsifiable concentrate	160 g/l	1.25 l/ha	1.25 l/ha	-
				spiroxamine		300 g/l			
winter triticale	Azbany	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1.0 l/ha	1.0 l/ha	-
winter triticale	Torero	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1.0 l/ha	1.0 l/ha	-
winter oilseed rape	Tilmor 240 EC	Czech Republic	no data	prothioconazole	EC - Emulsifiable concentrate	80 g/l	1.0 l/ha	1.0 l/ha	-
				tebuconazole		160 g/l			
winter oilseed rape	Amistar	Czech Republic	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1.0 l/ha	1.0 l/ha	-
winter oilseed rape	Proline	Germany	no data	prothioconazole	EC - Emulsifiable concentrate	250 g/l	0.7 l/ha	0.7 l/ha	-
winter triticale	Ortiva	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1.0 l/ha	1.0 l/ha	-
winter oilseed rape	Propulse	Germany	no data	prothioconazole	SE - Suspo-Emulsion	125 g/l	1.0 l/ha	1.0 l/ha	-
				fluopyram		125 g/l			

- (1) only on use(s) applied for (with the test product).
- (2) e.g. WP (wetttable powder), EC (emulsifiable concentrate), etc.
- (3) dose(s) / dose range authorized on that use in the country.
- (4) Other relevant information (e.g. uses, number of applications, spray volume, method of application, etc.).

3.2.1 Preliminary tests (KCP 6.1)

Preliminary studies on product CHR/F/PRTOAZO 375 SC were not carried out because this fungicide contains prothioconazole 175 g/L + azoxystrobin 200 g/L, which are a well-known active substance that has been used for many years in agricultural practice.

According to EPPO 1/306 (1) General principles for the development of co-formulated mixtures of plant protection products, a co-formulated mixture is defined as a plant protection product which contains more than one active substance. Mixtures may be developed for a variety of reasons, including improved effectiveness against one pest or a range of pests, better plant growth regulation, resistance management, a broader spectrum of pest control and other desirable properties such as flexibility of application or improved crop quality.

Effectiveness

CHR/F/PRTOAZO 375 SC is a plant protection product contains two well known active substances: prothioconazole 175 g/L + azoxystrobin 200 g/L. After analysing product contain prothioconazole and azoxystrobin registered in Poland and comparing time of use and diseases there are strong issues supporting the authorization of a mixture.

Each of CHR/F/PRTOAZO 375 SC active substances has different mode of action on specific control of diseases:

prothioconazole – cereals including *Pseudocercospora herpotrichoides*, *Erysiphe graminis*, *Puccinia striiformis*, *Puccinia recondita*, *Septoria tritici*, *Pyrenophora tritici repentis*, *Leptosphaeria nodorum*, *Rhizoctonia cerealis*, *Microdochium nivale*, *Fusarium spp.*, *Rhynchosporium secalis*, *Pyrenophora teres*, *Puccinia hordei*, *Pseudocercospora herpotrichoides* and oilseed rape diseases including *Sclerotinia sclerotiorum*, *Leptosphaeria maculans*, *Pyrenopeziza brassicae*, *Cylindrosporium spp.*, *Botrytis cinerea*, *Alternaria brassicae*,

azoxystrobin – Ascomycetes, Basidiomycetes, Deuteromycetes and Oomycetes,

Product CHR/F/PRTOAZO 375 SC control the most important fungal diseases in winter wheat, winter

triticale, spring barley and winter oilseed rape.

Combination of these two substances control the most important fungal diseases in cereals and winter oilseed rape, combines different modes of action to prevent resistance.

Potential advantages:

Advantages in combining active substances with different properties

CHR/F/PRTOAZO 375 SC contains 2 different active substances that act in different ways and in different times, with systemic and foliar activity (Table 1).

Prothioconazole is a DMI fungicide that acts by inhibiting the Cytochrome P450-dependent C-14 demethylase reaction in fungal sterol biosynthesis. Blockage of the sterol biosynthesis leads to a reduction in the normal sterol pathway end products and an accumulation of other abnormal sterols. It is unclear which of these effects is responsible for impairment of membrane function and limitation of fungal growth.

Azoxystrobin is a broad spectrum fungicide for the control of many plant diseases. It has the same biochemical mode of action as the naturally occurring strobilurins and is structurally related to them. Azoxystrobin is a β -methoxyacrylate. It is included in the same chemical class as trifloxystrobin, dimoxystrobin, fluxastrobin, picoxystrobin, pyraclostrobin and trifloxystrobin. The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. Azoxystrobin acts by inhibiting electron transport consequently inhibiting fungal respiration.

Table 1.

Active substance	Prothioconazole	Azoxystrobin
Concentration (Unit: g/kg or g/L...)	175 g/L	200 g/L
Chemical group	triazole	methoxy-acrylates
Mode of action	Inhibitor of fungal sterols biosynthesis (DMI)	acts by inhibiting electron transport consequently inhibiting fungal respiration
Biological action	Prothioconazole is a systemic (loco and leaf) fungicide that interferes with fungal sterol biosynthesis resulting in the impairment of membrane function and limitation of fungal growth. Prothioconazole is recommended for the control of stem, leaf and ear diseases of cereals including <i>Pseudocercospora herpotrichoides</i> , <i>Erysiphe graminis</i> , <i>Puccinia striiformis</i> , <i>Puccinia recondita</i> , <i>Septoria tritici</i> , <i>Pyrenophora tritici repentis</i> , <i>Leptosphaeria nodorum</i> , <i>Rhizoctonia cerealis</i> , <i>Microdochium nivale</i> , <i>Fusarium spp.</i> , <i>Rhynchosporium secalis</i> , <i>Pyrenophora teres</i> , <i>Puccinia hordei</i> , <i>Pseudocercospora herpotrichoides</i> and oilseed rape diseases including <i>Sclerotinia sclerotiorum</i> , <i>Leptosphaeria maculans</i> , <i>Pyrenopeziza brassicae</i> , <i>Cylindrosporium spp.</i> , <i>Botrytis cinerea</i> , <i>Alternaria brassicae</i> .	The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. It inhibits spore germination and the development for control of diseases from <i>Ascomycetes</i> , <i>Basidiomycetes</i> , <i>Deuteromycetes</i> and <i>Oomycetes</i> . Azoxystrobin acts by inhibiting electron transport consequently inhibiting fungal respiration.

Using two active substances in a mixture provide more effective control than if they are applied singly in sequence.

CHR/F/PRTOAZO 375 SC contain two active substances with a different time and mode of action. In Poland there are eighteen plant protection products containing prothioconazole solo, seventy three plant protection products containing azoxystrobin solo.

Table below (Table 2 and 3) shows that CHR/F/PRTOAZO 375 SC has much more most important fungal diseases control of most important fungal diseases than solo products registered by applicant, also dose of active substances is lower.

Table 2.

N o.	crop	EPPO code	Scientific name	Average (%) stem	Average (%) leaf	Average (%) plant	Average (%) ear	Efficacy	Average (%) stem	Average (%) leaf	Average (%) plant	Average (%) ear	Efficacy	Average (%) stem	Average (%) leaf	Average (%) plant	Average (%) ear	Efficacy
Product dose (L/ha)				*CHR/F/PROTAZO 375 SC 1,0 L/ha					**CHR/F/AZX 250 SE 2 x 1,0 L/ha					***CHR/F/PROTIO 250 EC 0,8 L/ha				
1.	Winter wheat	PSDCHE	<i>Oculimacula yallundae</i>	80,74				E						88,74				E
		FUSASF	<i>Fusarium sp.</i>	79,76				ME						84,35				E
		ERYSGR	<i>Blumeria graminis</i> - one application		79,12	76,83		ME							97,06	92,15		E
		ERYSGR	<i>Blumeria graminis</i> - two application		81,59	78,72		E										
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		87,35	90,17		E		73,66			ME	91,29				E
		PUCCRE	<i>Puccinia recondita</i>		87,92	100,00		E		90,74			E		96,8			E
		PUCCSI	<i>Puccinia striiformis tritici</i>		89,58			E										
		SEPTTR	<i>Zymoseptoria tritici</i> - one application		79,68	77,08		ME							82,71	60,13		ME
		SEPTTR	<i>Zymoseptoria tritici</i> - two application		79,55	67,35		ME		84,38			E		88,41			E
		FUSACU	<i>Fusarium culmorum</i>				85,92	E									87,36	E
		LEPTNO	<i>Septoria nodorum</i> / <i>Phaeosphaeria nodorum</i>				88,78	E									77,63	ME
	RHIZCE	<i>Rhizoctonia cerealis</i>	81,77				E											
Product dose (L/ha)				*CHR/F/PROTAZO 375 SC 1,0 L/ha					**CHR/F/AZX 250 SE 2 x 1,0 L/ha									
2.	Winter triticale	FUSASF	<i>Fusarium sp.</i>	71,92				ME										
		ERYSGR	<i>Blumeria graminis</i> - one application		83,98	85,20		E										
		ERYSGR	<i>Blumeria graminis</i> - two application		86,90	93,27		E										
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		91,96	87,23		E		68,53			ME					

		PUCCRE	<i>Puccinia recondita</i>		93,43	100,00		E		89,01			E					
		PUCCSI	<i>Puccinia striiformis tritici</i>		84,17		95,32	E										
		SEPTTR	<i>Zymoseptoria tritici</i> - one application		85,03	83,67		E										
		SEPTTR	<i>Zymoseptoria tritici</i> - two application		87,21	88,68		E		87,5			E					
		RHYNSE	<i>Rhynchosprum secalis</i>		87,08	83,33		E										
		FUSACI	<i>Fusarium culmorum</i>				90,50	E										
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				87,72	E										
		RHIZCE	<i>Rhizoctonia cerealis</i>	87,05				E										
Product dose (L/ha)					*CHR/F/PROTAZO 375 SC 1,0 L/ha						**CHR/F/AZX 250 SE 2 x 1,0 L/ha							
3.	Sprin barle	PUCCHD	<i>Puccinia hordei</i>		93,48			E		87,58			E					
		PYRNTE	<i>Pyrenophora teres</i>		83,23	84,60		E		87,68			E					
		ERYSGR	<i>Blumeria graminis</i>		88,12	90,23		E										
		RHYNSE	<i>Rhynchosprum secalis</i>		87,29	83,50		E		86,58			E					
		FUSACI	<i>Fusarium culmorum</i>				89,03	E										

* CHR/F/PROTAZO 375 SC (prothioconazole 175 g/l + azoxystrobin 200 g/l); Claro 375 SC/ Kajman 375 SC, dose one application 1,0 l/ha (prothioconazole 175 g a.s/ha + azoxystrobin 200 g a.s./ha), in cereals appliaction BBCH 25-69, dose two application against *Zymoseptoria tritici* and *Blumeria graminis* in winter cereals and spring barley except *Fusarium culmorum* 2 x 1,0 l/ha (prothioconazole 350 g a.s/ha + azoxystrobin 400 g a.s./ha), application time BBCH 25-61.

** CHR/F/AZX 250 SE (azoxystrobin 250 g/l) Azoxin 250 SE/Bolid 250 SE/Makler 250 SE, in cereals dose two applicaton: 2 x 1,0 l/ha (azoxystrobin 500 g a.s./ha), appliaction BBCH 30-65.

***CHR/F/PROTIO 250 EC (prothioconazole 250 g/l); Protikon 250 EC / Virid 250 EC, dose one appliaction: 0,8 l/ha (200 g a.s./ha), appliaction time: BBCH 26-69 in winter wheat, dose two application against *Zymoseptoria tritici* 2 x 0,8 l/ha (prothioconazole 400 g a.s/ha), appliaction time: BBCH 26-59.

Table 3.

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Efficacy	Average (%)	Average (%)	Average (%)	Efficacy	Average (%)	Average (%)	Average (%)	Efficacy
				stem	leaf	pod		stem	leaf	pod		stem	leaf	pod	
Product dose (L/ha)					*CHR/F/PROTAZO 375 SC 1,0 L/ha			**CHR/F/AZX 250 SE 1,0 L/ha				***CHR/F/PROTIO 250 EC 0,8 l/ha			
I	winter oilseed rape	SCLESC	<i>Sclerotinia sclerotiorum</i>	88,32			E	90,76			E	90,83			E
		ALTEBA	<i>Alternaria brassicae</i>		91,90	83,86	E		88,76		E		91,02	93,14	E
		VERTLO	<i>Verticillium longisporum</i>	51,34			R								
		BOTRCI	<i>Botrytis cinerea</i>			81,48	E			91,51	E				
		LEPTMA	<i>Phoma lingam</i>										89,41		E

* CHR/F/PROTAZO 375 SC (prothioconazole 175 g/l + azoxystrobin 200 g/l); Claro 375 SC/ Kajman 375 SC, dose one application 1,0 l/ha (prothioconazole 175 g a.s./ha + azoxystrobin 200 g a.s./ha), in winter oilseed rape application time BBCH 59-69.

** CHR/F/AZX 250 SE (azoxystrobin 250 g/l) Azoxin 250 SE/Bolid 250 SE/Makler 250 SE, in winter oilseed rape one application: 1,0 l/ha (azoxystrobin 250 g a.s./ha), application time BBCH 58-71.

***CHR/F/PROTIO 250 EC (prothioconazole 250 g/l); Protikon 250 EC / Virid 250 EC, dose one appliaction: 0,8 l/ha (200 g a.s./ha), appliaction time: BBCH 61-69 in winter oilseed rape.

After analysing data for product with solo prothioconazole and azoxystrobin (tables 2, 3 and tables 4, 5) registered in Poland it may be consider that:

- products contain only prothioconazole control only 9 fungal diseases in winter wheat and 3 fungal diseases in winter oilseed rape,

- products contain only azoxystrobin control only 3 fungal diseases in winter wheat, winter triticale and spring barley and 3 fungal diseases in winter oilseed rape,

- CHR/F/PROTAZO 375 SC control 10 the most important fungal diseases in winter wheat, winter triticale, 5 the most important fungal diseases in spring barley and 4 fungal diseases in winter oilseed rape.

Spectrum of pathogen by CHR/F/PROTAZO 375 SC is much bigger wide than solo products.

- the maximum authorized dose of a prothioconazole and azoxystrobin has been reduced:

For cereals products dose contain prothioconazole is 200 g a.s./ha and two application against *Zymoseptoria tritici* is 400 g a.s./ha, while in CHR/F/PROTAZO 375 SC prothioconazole dose is 175 g a.s./ha and two application against *Zymoseptoria tritici* and *Blumeria graminis* in winter cereals and spring barley except *Fusarium culmorum* is 350 g a.s./ha. For winter oilseed rape products dose contain prothioconazol is 200 g a.s./ha, while in CHR/F/PROTAZO 375 SC prothioconazole dose is 175 g a.s./ha.

For cereals products contain azoxystrobin is 500 g a.s./ha, while in CHR/F/PROTAZO 375 SC azoxystrobin dose is 200 g a.s./ha and two application against *Zymoseptoria tritici* and *Blumeria graminis* in winter cereals and spring barley except *Fusarium culmorum* is 400 g a.s./ha. For winter oilseed rape products dose contain azoxystrobin is 250 g a.s./ha, while in CHR/F/PROTAZO 375 SC azoxystrobin dose is 200 g a.s./ha.

In Poland there are registered 81 products containing **prothioconazole**. The 18 of them contain prothioconazole solo.

Dose of prothioconazole per hectare in use:

Solo:

- in winter wheat, winter barley 99-195 g a.s./ha (*Fusarium culmorum* - in 1 application)
- in winter wheat, winter barley 198-390 g a.s./ha (*Blumeria graminis*, *Puccinia striiformis tritici*, *Puccinia recondita*, *Zymoseptoria tritici*, *Pyrenophora tritici-repentis* (medium level of control), *Septoria nodorum* - in 2 applications)
- in winter wheat 200 g a.s./ha (*Fusarium sp.*, *Oculimacula yallundae*, *Blumeria graminis*, *Zymoseptoria tritici*, *Pyrenophora tritici-repentis*, *Puccinia recondita*, *Septoria nodorum*, *Fusarium culmorum* – in 1 application)
- in winter wheat 400 g a.s./ha (*Zymoseptoria tritici* – in 2 applications)
- in spring wheat 200 g a.s./ha (*Fusarium culmorum* – in 1 application)
- in spring wheat 400 g a.s./ha (*Blumeria graminis*, *Puccinia striiformis tritici*, *Puccinia recondita*, *Zymoseptoria tritici*, *Pyrenophora tritici-repentis* (medium level of control), *Septoria nodorum* - in 2 applications)
- in spring wheat, winter wheat 198-400 g a.s./ha (in 2 applications)
- in spring rye 400 g a.s./ha (in 2 applications)
- in spring barley, winter barley, winter rye, winter triticale 198-390 g a.s./ha (in 2 applications)
- in winter oilseed rape 200 g a.s./ha (in 1 application) or 180-360 g a.s./ha (in 2 applications)
- in spring oilseed rape 90-180 g a.s./ha (in 1 application) or 180-300 g a.s./ha (in 2 applications)

In mixture:

- in winter oilseed rape 125-200 g a.s./ha (in 1 application) or 12-160 g a.s./ha (in 2 applications)
- in spring oilseed rape 60-125 g a.s./ha (in 1 application) or 180-300 g a.s./ha (in 2 applications)
- in winter wheat, winter triticale 37.1-200 g a.s./ha (in 1 application) or 198-400 g a.s./ha (in 2 applications)
- in winter rye 80-200 g a.s./ha (in 1 application) or 198-390 g a.s./ha (in 2 applications)
- in winter barley 31.8-200 g a.s./ha (in 1 application) or 198-390 g a.s./ha (in 2 applications)
- in spring wheat 37.1-200 g a.s./ha (in 1 application) or 240-390 g a.s./ha (in 2 applications)
- in spring triticale 37.1-200 g a.s./ha (in 1 application) or 240-300 g a.s./ha (in 2 applications)
- in spring rye 300 g a.s./ha (in 2 applications)
- in spring barley 31.8-200 g a.s./ha (in 1 application) or 180-350 g a.s./ha (in 2 applications)

In Poland there are registered 92 products containing **azoxystrobin**. The 73 of them contain azoxystrobin solo.

Dose of azoxystrobin per hectare in use:

Solo

- in winter wheat, winter rye, winter barley, spring wheat, spring rye 200-250 g a.s./ha (in 1 application) or 360-500 g a.s./ha (in 2 applications)
- in winter triticale 180-250 g a.s./ha (in 1 application) or 360-500 g a.s./ha (in 2 applications)
- in winter oilseed rape 112.5-250 g a.s./ha (in 1 application)
- in spring oilseed rape 125-250 g a.s./ha (in 1 application) or 200-250 g a.s./ha (*Phoma lingam* in 2 applications, *Sclerotinia sclerotiorum* in 1 application)
- in spring barley 105-250 g a.s./ha (in 1 application) or 360-500 g a.s./ha (in 2 applications)
- in spring triticale 200-250 g a.s./ha in (1 application)
- in rye 200-250 g a.s./ha (in 1 application)

In mixture

- in winter wheat 112.5-150 g a.s./ha (in 1 application) or 360-400 g a.s./ha (in 2 applications)
- in winter triticale 360-400 g a.s./ha (in 2 applications)
- in winter oilseed rape 120-200 g a.s./ha (in 1 application) or 250-500 g a.s./ha (*Phoma lingam* in 2 applications, *Sclerotinia sclerotiorum* in 1 application)

- Other general advantages for the mixture when compared with the solo product could include less packaging and reducing the number of operations for operators.

Table 4. Registered products containing prothioconazole solo and mixture

No.	Product	active substance	crop	dose	dose [max]	L/ha	prothioconazole dose a.s./ha	prothioconazole dose a.s./ha [max]	No. of treatment	Comments
1	Albion 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
2	Apron X 190 EC	prothioconazole 100 g/l + fluoxastrobin 50 g/l + bixafen 40 g/l	winter wheat	1.25	1.50	L/ha	125	150	2	
			winter rye	1.25	1.50	L/ha	125	150	2	
			winter barley	1.00	1.25	L/ha	100	125	2	
			spring barley	1.00	1.25	L/ha	100	125	2	
3	Artemid	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
4	Ascra Xpro 260 EC	bixafen 65 g/l + fluopyram 65 g/l + prothioconazole 130 g/l	spring wheat	1.00	1.50	L/ha	130	195	2	
			spring barley	1.00	1.20	L/ha	130	195	1	
			winter wheat	1.00	1.50	L/ha	130	195	2	
			winter barley	1.00	1.50	L/ha	130	195	2	
			winter triticale	1.00	1.50	L/ha	130	195	2	

			winter rye	1,00	1,50	L/ha	130	195	2	
5	Aspik 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0,75	1,00	L/ha	93,75	125	1	
			spring wheat	0,75	1,00	L/ha	93,75	125	1	
			winter triticale	0,75	1,00	L/ha	93,75	125	1	
			spring triticale	0,75	1,00	L/ha	93,75	125	1	
			spring barley	0,75	1,00	L/ha	93,75	125	1	
			winter barley	0,75	1,00	L/ha	93,75	125	1	
			winter rye	0,75	1,00	L/ha	93,75	125	1	
6	Aviator Xpro 225	prothioconazole 150 g/l + bixafen 75 g/l	spring triticale	0,80	1,00	L/ha	120	150	2	
			winter wheat	0,80	1,00	L/ha	120	150	2	
			spring wheat	0,80	1,00	L/ha	120	150	2	
			winter triticale	0,80	1,00	L/ha	120	150	2	
			winter barley	0,60	0,80	L/ha	120	150	2	
			spring barley	0,60	0,80	L/ha	120	150	2	
			winter rye	0,80	1,00	L/ha	120	150	2	
7	Basior 300 EC	prothioconazole 300 g/l	winter wheat	0,33	0,65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum- 2 application; Fusarium culmorum - 1 application
			winter triticale	0,33	0,65	L/ha	99	195	2	
			winter barley	0,33	0,65	L/ha	99	195	2	
			winter rye	0,33	0,65	L/ha	99	195	2	
			spring wheat	0,33	0,65	L/ha	99	195	2	
			spring barley	0,33	0,65	L/ha	99	195	2	
			winter oilseed rape		0,60	L/ha		180	2	
			spring oilseed rape	0,30	0,60	L/ha	90	180	1	
8	Bogota 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0,75	1,00	L/ha	60	80	2	
9	Boogie Xpro 400 EC	prothioconazole 100 g/l + bixafen 50 g/l + spiroxamina 250 g/l	winter wheat	1,20	1,50	L/ha	120	150	2	
			spring barley	0,90	1,20	L/ha	90	120	2	
			winter rye	0,90	1,20	L/ha	90	120	2	
10	Broteas 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0,75	1,00	L/ha	93,75	125	1	
			spring wheat	0,75	1,00	L/ha	93,75	125	1	
			winter triticale	0,75	1,00	L/ha	93,75	125	1	
			spring triticale	0,75	1,00	L/ha	93,75	125	1	
			winter barley	0,75	1,00	L/ha	93,75	125	1	
			spring barley	0,75	1,00	L/ha	93,75	125	1	
			winter rye	0,75	1,00	L/ha	93,75	125	1	

11	Capetus Extra 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0.75	1.00	L/ha	93.75	125	1	
			spring wheat	0.75	1.00	L/ha	93.75	125	1	
			winter triticale	0.75	1.00	L/ha	93.75	125	1	
			spring triticale	0.75	1.00	L/ha	93.75	125	1	
			winter barley	0.75	1.00	L/ha	93.75	125	1	
			spring barley	0.75	1.00	L/ha	93.75	125	1	
			winter rye	0.75	1.00	L/ha	93.75	125	1	
12	Carcamo 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
13	Clayton Divot 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	spring barley	0.75	1.00	L/ha	93.75	125	1	
			winter barley	0.75	1.00	L/ha	93.75	125	1	
			winter rye	0.75	1.00	L/ha	93.75	125	1	
			winter wheat	0.75	1.00	L/ha	93.75	125	1	
			spring wheat	0.75	1.00	L/ha	93.75	125	1	
			winter triticale	0.75	1.00	L/ha	93.75	125	1	
			spring triticale	0.75	1.00	L/ha	93.75	125	1	
14	Clayton Navaro 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0.75	1.00	L/ha	93.75	125	1	
			spring wheat	0.75	1.00	L/ha	93.75	125	1	
			winter triticale	0.75	1.00	L/ha	93.75	125	1	
			spring triticale	0.75	1.00	L/ha	93.75	125	1	
			spring barley	0.75	1.00	L/ha	93.75	125	1	
			winter barley	0.75	1.00	L/ha	93.75	125	1	
			winter rye	0.75	1.00	L/ha	93.75	125	1	
15	Clayton Proteb 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter oilseed rape		1.00	L/ha		125	1	
16	Clayton Tote 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter oilseed rape		1.00	L/ha		125	1	
17	Colverado	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
18	Corinth 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
19	Delaro 325 SC	prothioconazole 175 g/l + trifloksystrobina 150 g/l	winter wheat		1.00	L/ha		175	2	
			winter triticale		1.00	L/ha		175	2	
			spring wheat		1.00	L/ha		175	2	
			winter barley		1.00	L/ha		175	2	
			spring barley		1.00	L/ha		175	2	
20	Denver	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
21	Echilon Super	benzowindylupyr 75 g/l + prothioconazole 150 g/l	winter wheat		1.00	L/ha		150	1	
			spring wheat		1.00	L/ha		150	1	
			winter barley		1.00	L/ha		150	1	
			spring barley		1.00	L/ha		150	1	
			winter triticale		1.00	L/ha		150	1	
			winter rye		1.00	L/ha		150	1	

22	Elatus Era	benzowindylupyr 75 g/l + prothioconazole 150 g/l	winter wheat		1.00	L/ha		150	1	
			spring wheat		1.00	L/ha		150	1	
			winter barley		1.00	L/ha		150	1	
			spring barley		1.00	L/ha		150	1	
			winter triticale		1.00	L/ha		150	1	
			winter rye		1.00	L/ha		150	1	
23	Eldorado	benzowindylupyr 75 g/l + prothioconazole 150 g/l	winter wheat		1.00	L/ha		150	1	
			spring wheat		1.00	L/ha		150	1	
			winter barley		1.00	L/ha		150	1	
			spring barley		1.00	L/ha		150	1	
			winter triticale		1.00	L/ha		150	1	
			winter rye		1.00	L/ha		150	1	
24	Exactris	prothioconazole 250 g/l	winter wheat		0.80	L/ha		200	2	
			spring wheat		0.80	L/ha		200	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
25	Fandango 200 EC	prothioconazole 100 g/l + fluoxastrobin 100 g/l	winter wheat		1.00	L/ha		100	1	
			spring wheat		1.00	L/ha		100	1	
			winter triticale		1.00	L/ha		100	1	
			spring triticale		1.00	L/ha		100	1	
			spring barley		1.00	L/ha		100	1	
			winter rye		1.00	L/ha		100	1	
26	Gaboro 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter oilseed rape		1.00	L/ha		125	1	
			spring oilseed rape		1.00	L/ha		125	1	
27	Gigant 275 SC	izopirazam 125 g/l + prothioconazole 150 g/l	winter triticale		1.00	L/ha		150	2	
			spring triticale		1.00	L/ha		150	2	
			winter wheat		1.00	L/ha		150	2	
			spring wheat		1.00	L/ha		150	2	
			winter barley		1.00	L/ha		150	2	
			spring barley		1.00	L/ha		150	2	
			winter triticale		1.00	L/ha		150	2	
			winter rye		1.00	L/ha		150	2	
			spring rye		1.00	L/ha		150	2	
28	Graphite	prothioconazole 125 g/l + tebuconazole 125 g/l	winter oilseed rape		1.00	L/ha		125	1	
			spring oilseed rape		1.00	L/ha		125	1	
29	Grenova	prothioconazole 125 g/l + tebuconazole 125 g/l	winter oilseed rape		1.00	L/ha		125	1	

30	Hint	prothioconazole 160 g/l + spiroxamina 300 g/l	winter barley		1,00	L/ha		160	1	
			spring barley		1,00	L/ha		160	1	
			winter wheat		1,00	L/ha		160	1	
			spring wheat	0,75	1,00	L/ha		160	1	
31	Horea Extra	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0,75	1,00	L/ha	93,75	125	1	
			spring wheat	0,75	1,00	L/ha	93,75	125	1	
			winter triticale	0,75	1,00	L/ha	93,75	125	1	
			spring triticale	0,75	1,00	L/ha	93,75	125	1	
			spring barley	0,75	1,00	L/ha	93,75	125	1	
			winter barley	0,75	1,00	L/ha	93,75	125	1	
			winter rye	0,75	1,00	L/ha	93,75	125	1	
32	Horea Plus	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0,75	1,00	L/ha	93,75	125	1	
			spring wheat	0,75	1,00	L/ha	93,75	125	1	
			winter triticale	0,75	1,00	L/ha	93,75	125	1	
			spring triticale	0,75	1,00	L/ha	93,75	125	1	
			spring barley	0,75	1,00	L/ha	93,75	125	1	
			winter barley	0,75	1,00	L/ha	93,75	125	1	
			winter rye	0,75	1,00	L/ha	93,75	125	1	
33	Hutton	prothioconazole 100 g/l + spiroxamina 250 g/l + tebuconazole 100 g/l	winter wheat		0,80	L/ha		80	1	
			winter triticale		0,80	L/ha		80	1	
			winter rye		0,80	L/ha		80	1	
			winter barley	0,60	0,80	L/ha	60	80	1	
			spring wheat		0,80	L/ha		80	1	
34	Input 460 EC	prothioconazole 100 g/l + spiroxamina 300 g/l	winter wheat	0,75	1,00	L/ha	75	100	1	
			spring wheat		1,00	L/ha		100	1	
			spring barley		1,00	L/ha		100	1	
			winter barley		1,00	L/ha		100	1	
			winter triticale		1,00	L/ha		100	1	
35	Input Triple	proquinazid 40 g/l + prothioconazole 160 g/l + spiroxamina 200 g/l	winter wheat		1,25	L/ha		200	1	
			winter barley		1,25	L/ha		200	1	
			winter triticale		1,25	L/ha		200	1	
			winter rye		1,25	L/ha		200	1	
			spring barley		1,25	L/ha		200	1	
			winter barley		1,25	L/ha		200	1	
			spring wheat		1,25	L/ha		200	1	
			spring triticale		1,25	L/ha		200	1	
36	Jade	prothioconazole 125 g/l + tebuconazole 125 g/l	spring wheat	0,75	1,00	L/ha	93,75	125	1	
			winter wheat	0,75	1,00	L/ha	93,75	125	1	
			spring barley	0,75	1,00	L/ha	93,75	125	1	
			winter triticale	0,75	1,00	L/ha	93,75	125	1	
			spring triticale	0,75	1,00	L/ha	93,75	125	1	

			winter barley	0.75	1.00	L/ha	93.75	125	1	
			winter rye	0.75	1.00	L/ha	93.75	125	1	
37	Judym 300 EC	prothioconazole 300 g/l	winter wheat	0.33	0.65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter triticale	0.33	0.65	L/ha	99	195	2	
			winter barley	0.33	0.65	L/ha	99	195	2	
			winter rye	0.33	0.65	L/ha	99	195	2	
			spring wheat	0.33	0.65	L/ha	99	195	2	
			spring barley	0.33	0.65	L/ha	99	195	2	
			winter oilseed rape		0.60	L/ha		180	2	
			spring oilseed rape	0.30	0.60	L/ha	90	180	1	
38	Kallarat 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
39	Kanonik 300 EC	prothioconazole 300 g/l	winter wheat	0.33	0.65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter triticale	0.33	0.65	L/ha	99	195	2	
			winter barley	0.33	0.65	L/ha	99	195	2	
			winter rye	0.33	0.65	L/ha	99	195	2	
			spring wheat	0.33	0.65	L/ha	99	195	2	
			spring barley	0.33	0.65	L/ha	99	195	2	
			winter oilseed rape		0.60	L/ha		180	2	
			spring oilseed rape	0.30	0.60	L/ha	90	180	1	
40	Kroton	prothioconazole 100 g/l + spiroxamina 300 g/l	winter wheat	0.75	1.00	L/ha	75	100	1	
			spring wheat		1.00	L/ha		100	1	
			spring barley		1.00	L/ha		100	1	
			winter barley		1.00	L/ha		100	1	
41	Martriste 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
42	Moc-Legenda 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	spring wheat	0.75	1.00	L/ha	93.75	125	1	

			winter wheat	0.75	1.00	L/ha	93,75	125	1	
			spring barley	0.75	1.00	L/ha	93,75	125	1	
			winter tritcale	0.75	1.00	L/ha	93,75	125	1	
			spring tritcale	0.75	1.00	L/ha	93,75	125	1	
			winter barley	0.75	1.00	L/ha	93,75	125	1	
			winter rye	0.75	1.00	L/ha	93,75	125	1	
43	Pabi 300 EC	prothioconazole 300 g/l	winter wheat	0.33	0.65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter tritcale	0.33	0.65	L/ha	99	195	2	
			winter barley	0.33	0.65	L/ha	99	195	2	
			winter rye	0.33	0.65	L/ha	99	195	2	
			spring wheat	0.33	0.65	L/ha	99	195	2	
			spring barley	0.33	0.65	L/ha	99	195	2	
			winter oilseed rape	0.30	0.60	L/ha	90	180	2	
			spring oilseed rape	0.30	0.50	L/ha	90	150	2	
44	Pecari 300 EC	prothioconazole 300 g/l	winter wheat	0.33	0.65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter tritcale	0.33	0.65	L/ha	99	195	2	
			winter barley	0.33	0.65	L/ha	99	195	2	
			winter rye	0.33	0.65	L/ha	99	195	2	
			spring wheat	0.33	0.65	L/ha	99	195	2	
			spring barley	0.33	0.65	L/ha	99	195	2	
			winter oilseed rape	0.30	0.60	L/ha	90	180	2	
			spring oilseed rape	0.30	0.50	L/ha	90	150	2	
45	Podstawa 300 EC	prothioconazole 300 g/l	winter barley	0.33	0.65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control),

										Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter rye	0.33	0.65	L/ha	99	195	2	
			spring wheat	0.33	0.65	L/ha	99	195	2	
			spring barley	0.33	0.65	L/ha	99	195	2	
			winter wheat	0.33	0.65	L/ha	99	195	2	
			winter triticale	0.33	0.65	L/ha	99	195	2	
			winter oilseed rape		0.60	L/ha		180	2	
			spring oilseed rape	0.30	0.60	L/ha	90	180	1	
46	Poleposition 300 EC	prothioconazole 300 g/l	winter wheat	0.33	0.65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			spring wheat	0.33	0.65	L/ha	99	195	2	
			spring barley	0.33	0.65	L/ha	99	195	2	
			winter barley	0.33	0.65	L/ha	99	195	2	
			winter triticale	0.33	0.65	L/ha	99	195	2	
			winter rye	0.33	0.65	L/ha	99	195	2	
			winter oilseed rape	0.30	0.60	L/ha	90	180	2	
			spring oilseed rape	0.30	0.50	L/ha	90	150	2	
47	Prabha	boscalid 233 g/l + prothioconazole 100 g/l	winter wheat		1.50	L/ha		150	2	
48	Praktis	prothioconazole 250 g/l	winter wheat		0.80	L/ha		200	2	
			winter oilseed rape		0.70	L/ha		175	2	
49	Prizm 275 SC	izopirazam 125 g/l + prothioconazole 150 g/l	spring triticale		1.00	L/ha		150	2	
			winter triticale		1.00	L/ha		150	2	
			winter wheat		1.00	L/ha		150	2	
			spring wheat		1.00	L/ha		150	2	
			winter barley		1.00	L/ha		150	2	
			spring barley		1.00	L/ha		150	2	
			winter rye		1.00	L/ha		150	2	
			spring rye		1.00	L/ha		150	2	
50	Procer 300 EC	prothioconazole 300 g/l	winter wheat	0.33	0.65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control),

											Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter triticale	0,33	0,65	L/ha	99	195	2		
			winter barley	0,33	0,65	L/ha	99	195	2		
			winter rye	0,33	0,65	L/ha	99	195	2		
			spring wheat	0,33	0,65	L/ha	99	195	2		
			spring barley	0,33	0,65	L/ha	99	195	2		
			winter oilseed rape		0,60	L/ha		180	2		
			spring oilseed rape	0,30	0,60	L/ha	90	180	1		
51	Procort Duo	prothioconazole 200 g/l + proquinazid 50 g/l	winter wheat	0,75	1,00	L/ha	150	200	1		
			winter triticale	0,75	1,00	L/ha	150	200	1		
			winter barley	0,75	1,00	L/ha	150	200	1		
			winter rye	0,75	1,00	L/ha	150	200	1		
			spring barley	0,75	1,00	L/ha	150	200	1		
52	Profuso	prothioconazole 125 g/l + tebuconazole 125 g/l	spring wheat	0,75	1,00	L/ha	93,75	125	1		
			winter wheat	0,75	1,00	L/ha	93,75	125	1		
			spring barley	0,75	1,00	L/ha	93,75	125	1		
			winter triticale	0,75	1,00	L/ha	93,75	125	1		
			spring triticale	0,75	1,00	L/ha	93,75	125	1		
			winter barley	0,75	1,00	L/ha	93,75	125	1		
			winter rye	0,75	1,00	L/ha	93,75	125	1		
53	Proline Max 460 EC	prothioconazole 160 g/l + spiroxamina 300 g/l	winter wheat	0,75	1,00	L/ha	120	160	1		
			spring wheat		1,00	L/ha		160	1		
			spring barley		1,00	L/ha		160	1		
			winter barley		1,00	L/ha		160	1		
54	Promino 300 EC	prothioconazole 300 g/l	winter wheat	0,33	0,65	L/ha	99	195	1-2		Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter triticale	0,33	0,65	L/ha	99	195	2		
			winter barley	0,33	0,65	L/ha	99	195	2		
			winter rye	0,33	0,65	L/ha	99	195	2		
			spring wheat	0,33	0,65	L/ha	99	195	2		
			spring barley	0,33	0,65	L/ha	99	195	2		
			winter oilseed rape		0,60	L/ha		180	2		
			spring oilseed rape	0,30	0,60	L/ha	90	180	1		

55	Propulse 250 SE	fluopyram 125 g/l + prothioconazole 125 g/l	winter oilseed rape		1,00	L/ha		125	1	
			spring oilseed rape		1,00	L/ha		125	1	
56	Prosaro 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	spring wheat	0,75	1,00	L/ha	93,75	125	1	
			winter wheat	0,75	1,00	L/ha	93,75	125	1	
			spring barley	0,75	1,00	L/ha	93,75	125	1	
			winter triticale	0,75	1,00	L/ha	93,75	125	1	
			spring triticale	0,75	1,00	L/ha	93,75	125	1	
			winter barley	0,75	1,00	L/ha	93,75	125	1	
			winter rye	0,75	1,00	L/ha	93,75	125	1	
57	Protebul 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0,75	1,00	L/ha	60	80	2	
			spring oilseed rape	0,75	1,00	L/ha	60	80	1	
58	Protefin	prothioconazole 125 g/l + tebuconazole 125 g/l	spring wheat	0,75	1,00	L/ha	93,75	125	1	
			winter wheat	0,75	1,00	L/ha	93,75	125	1	
			spring barley	0,75	1,00	L/ha	93,75	125	1	
			winter triticale	0,75	1,00	L/ha	93,75	125	1	
			spring triticale	0,75	1,00	L/ha	93,75	125	1	
			winter barley	0,75	1,00	L/ha	93,75	125	1	
			winter rye	0,75	1,00	L/ha	93,75	125	1	
59	Protendo 300 EC	prothioconazole 300 g/l	winter wheat	0,33	0,65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter triticale	0,33	0,65	L/ha	99	195	2	
			winter barley	0,33	0,65	L/ha	99	195	2	
			winter rye	0,33	0,65	L/ha	99	195	2	
			spring wheat	0,33	0,65	L/ha	99	195	2	
			spring barley	0,33	0,65	L/ha	99	195	2	
			winter oilseed rape	0,30	0,60	L/ha	90	180	2	
			spring oilseed rape	0,30	0,50	L/ha	90	150	2	
60	Protendo Extra	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0,75	1,00	L/ha	93,75	125	1	
			spring wheat	0,75	1,00	L/ha	93,75	125	1	
			winter triticale	0,75	1,00	L/ha	93,75	125	1	
			spring triticale	0,75	1,00	L/ha	93,75	125	1	
			spring barley	0,75	1,00	L/ha	93,75	125	1	
			winter barley	0,75	1,00	L/ha	93,75	125	1	
			winter rye	0,75	1,00	L/ha	93,75	125	1	

61	Protikon 250 EC	prothioconazole 250 g/l	winter wheat		0.80	L/ha		200	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter oilseed rape		0.80	L/ha		200	1	
			spring rye		0.80	L/ha		200	2	
			spring oilseed rape		0.80	L/ha		200	1	
62	Protiostar	prothioconazole 300 g/l	winter wheat		0.80	L/ha		200	2	
			spring wheat		0.80	L/ha		200	2	
63	Proviso 300 EC	prothioconazole 300 g/l	winter wheat	0.33	0.65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter barley	0.33	0.65	L/ha	99	195	2	
			winter triticale	0.33	0.65	L/ha	99	195	2	
			winter rye	0.33	0.65	L/ha	99	195	2	
			spring wheat	0.33	0.65	L/ha	99	195	2	
			spring barley	0.33	0.65	L/ha	99	195	2	
			winter oilseed rape	0.30	0.60	L/ha	90	180	2	
			spring oilseed rape	0.30	0.50	L/ha	90	150	2	
64	Sauron 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0.75	1.00	L/ha	93.75	125	1	
			spring wheat	0.75	1.00	L/ha	93.75	125	1	
			winter triticale	0.75	1.00	L/ha	93.75	125	1	
			spring triticale	0.75	1.00	L/ha	93.75	125	1	
			spring barley	0.75	1.00	L/ha	93.75	125	1	
			winter barley	0.75	1.00	L/ha	93.75	125	1	
			winter rye	0.75	1.00	L/ha	93.75	125	1	
65	Shalimar	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat		1.00	L/ha		125	2	
			winter barley		1.00	L/ha		125	2	
			spring oilseed rape		1.00	L/ha		125	2	
66	Silvestro 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0.75	1.00	L/ha	93.75	125	1	
			spring wheat	0.75	1.00	L/ha	93.75	125	1	
			winter triticale	0.75	1.00	L/ha	93.75	125	1	

			spring triticale	0.75	1.00	L/ha	93,75	125	1	
			spring barley	0.75	1.00	L/ha	93,75	125	1	
			winter barley	0.75	1.00	L/ha	93,75	125	1	
			winter rye	0.75	1.00	L/ha	93,75	125	1	
67	Sokół Max	fluoxastrobin 100 g/l + prothioconazole 100 g/l	winter wheat		1.00	L/ha		100	1	
			spring wheat		1.00	L/ha		100	1	
			winter triticale		1.00	L/ha		100	1	
			spring triticale		1.00	L/ha		100	1	
			spring barley		1.00	L/ha		100	1	
			winter barley		1.00	L/ha		100	1	
			winter rye		1.00	L/ha		100	1	
68	Soligor 425 EC	prothioconazole 53 g/l + spiroxamina 224 g/l + tebuconazole 148 g/l	winter wheat	0.70	1.00	L/ha	37,1	53	1	
			spring wheat	0.70	1.00	L/ha	37,1	53	1	
			winter triticale	0.70	1.00	L/ha	37,1	53	1	
			spring triticale	0.70	1.00	L/ha	37,1	53	1	
			spring barley	0.60	0.80	L/ha	31,8	42,4	1	
			winter barley	0.60	0.80	L/ha	31,8	42,4	1	
69	Tartaros 300 EC	prothioconazole 300 g/l	winter wheat	0.33	0.65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control), Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter barley	0.33	0.65	L/ha	99	195	2	
			winter triticale	0.33	0.65	L/ha	99	195	2	
			winter rye	0.33	0.65	L/ha	99	195	2	
			spring wheat	0.33	0.65	L/ha	99	195	2	
			spring barley	0.33	0.65	L/ha	99	195	2	
			winter oilseed rape		0.60	L/ha		180	2	
			spring oilseed rape	0.30	0.60	L/ha	90	180	1	
70	Tauron 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
71	Tebuprotin 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
72	Teodor 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0.75	1.00	L/ha	60	80	2	
			spring oilseed rape	0.75	1.00	L/ha	60	80	1	
73	Thesorus 460 EC	prothioconazole 160 g/l + spiroxamina 300 g/l	winter wheat	0.75	1.00	L/ha	120	160	1	
			spring wheat		1.00	L/ha		160	1	

			spring barley		1,00	L/ha		160	1	
			winter barley		1,00	L/ha		160	1	
74	Tilmor 240 EC	prothioconazole 80 g/l + tebuconazole 160 g/l	winter oilseed rape	0,75	1,00	L/ha	60	80	2	
			spring oilseed rape	0,75	1,00	L/ha	60	80	1	
75	Traper 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter oilseed rape	0,75	1,00	L/ha	93,75	125	2	
			spring oilseed rape	0,75	1,00	L/ha	93,75	125	1	
76	Ultralegend 250 EC	prothioconazole 125 g/l + tebuconazole 125 g/l	winter wheat	0,75	1,00	L/ha	93,75	125	1	
			spring wheat	0,75	1,00	L/ha	93,75	125	1	
			winter triticale	0,75	1,00	L/ha	93,75	125	1	
			spring triticale	0,75	1,00	L/ha	93,75	125	1	
			spring barley	0,75	1,00	L/ha	93,75	125	1	
			winter barley	0,75	1,00	L/ha	93,75	125	1	
			winter rye	0,75	1,00	L/ha	93,75	125	1	
77	Variano Xpro 190 EC	prothioconazole 100 g/l + fluoxastrobin 50 g/l + bixafen 40 g/l	winter wheat	1,25	1,50	L/ha	125	150	2	
			winter rye	1,25	1,50	L/ha	125	150	2	
			winter barley	1,00	1,25	L/ha	100	125	2	
			spring barley	1,00	1,25	L/ha	100	125	2	
78	Verben	prothioconazole 200 g/l + proquinazid 50 g/l	winter wheat	0,75	1,00	L/ha	150	200	1	
			winter triticale	0,75	1,00	L/ha	150	200	1	
			winter barley	0,75	1,00	L/ha	150	200	1	
			winter rye	0,75	1,00	L/ha	150	200	1	
			spring barley	0,75	1,00	L/ha	150	200	1	
79	Virid 250 EC	prothioconazole 250 g/l	winter wheat		0,80	L/ha		200	1-2	Fusarium sp., Oculimacula yallundae, Blumeria graminis, Zymoseptoria tritici, Pyrenophora tritici-repentis, Puccinia recondita, Septoria nodorum, Fusarium culmorum - 1 application; Zymoseptoria tritici - 2 application
			winter oilseed rape		0,80	L/ha		200	1	
			spring rye		0,80	L/ha		200	2	
			winter rye		0,80	L/ha		200	2	
			spring oilseed rape		0,80	L/ha		200	1	
80	Wadera 300 EC	prothioconazole 300 g/l	winter wheat	0,33	0,65	L/ha	99	195	1-2	Blumeria graminis, Puccinia striiformis tritici, Puccinia recondita, Zymoseptoria tritici, Pyrenophora tritici-repentis (medium level of control)

											Septoria nodorum - 2 application; Fusarium culmorum - 1 application
			winter barley	0,33	0,65	L/ha	99	195	2		
			winter triticale	0,33	0,65	L/ha	99	195	2		
			winter rye	0,33	0,65	L/ha	99	195	2		
			spring wheat	0,33	0,65	L/ha	99	195	2		
			spring barley	0,33	0,65	L/ha	99	195	2		
			winter oilseed rape		0,60	L/ha		180	2		
			spring oilseed rape	0,30	0,60	L/ha	90	180	1		
81	Wirtuoz Pro	prothioconazole 200 g/l + proquinazid 50 g/l	winter wheat	0,75	1,00	L/ha	150	200	1		
			winter triticale	0,75	1,00	L/ha	150	200	1		
			winter barley	0,75	1,00	L/ha	150	200	1		
			winter rye	0,75	1,00	L/ha	150	200	1		
			spring barley	0,75	1,00	L/ha	150	200	1		

Table 5. Registered products containing azoxystrobin solo and mixture

No.	Product	active substance	crop	dose	dose [max]	L/ha	azoxystrobin dose a.s./ha	azoxystrobin dose a.s./ha [max]	No. of treatment	Comments
1	Afrodyta 250 SC	azoxystrobin - 250 g	spring barley	0,8	1,0	L/ha	200	250	1	
			spring triticale	0,8	1,0	L/ha	200	250	1	
			winter triticale	0,8	1,0	L/ha	200	250	1	
			winter oilseed rape	0,8	1,0	L/ha	200	250	1	
			spring oilseed rape	0,8	1,0	L/ha	200	250	1	
			winter wheat	0,8	1,0	L/ha	200	250	1	
			spring wheat	0,8	1,0	L/ha	200	250	1	
			winter rye	0,8	1,0	L/ha	200	250	1	
			spring rye	0,8	1,0	L/ha	200	250	1	
2	Agristar 250 SC	azoxystrobin - 250 g	spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
			winter wheat		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	
3	Agristar Bis 250 SC	azoxystrobin - 250 g	spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
			winter wheat		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	

4	Alissa	azoxystrobin - 250 g	spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter wheat		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
5	Amistar 250 SC	azoxystrobin - 250 g	winter oilseed rape		0.8	L/ha		200	1	
			winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter triticale		0.8	L/ha		200	1	
6	Amistar Gold	azoxystrobin - 125 g	winter oilseed rape		1.0	L/ha		125	1	
		difenoconazole - 125 g								
			spring oilseed rape		1.0	L/ha		125	1	
7	Amistar Gold Max	azoxystrobin - 125 g	winter oilseed rape		1.0	L/ha		125	2	Phoma lingam - 2; Sclerotinia sclerotiorum - 1
		difenoconazole - 125 g								
			spring oilseed rape		1.0	L/ha		125	2	Phoma lingam - 2; Sclerotinia sclerotiorum - 1
8	Angle	azoxystrobin - 125 g	winter oilseed rape		1.0	L/ha		125	2	Phoma lingam - 2; Sclerotinia sclerotiorum - 1
		difenoconazole - 125 g								
			spring oilseed rape	0.8	1.0	L/ha	100	125	2	Phoma lingam - 2; Sclerotinia sclerotiorum - 1
9	Ascom 250 SC	azoxystrobin - 250 g	winter wheat	0.8	1.0	L/ha	200	250	1	
			spring wheat	0.8	1.0	L/ha	200	250	1	
			rye	0.8	1.0	L/ha	200	250	1	
			spring barley	0.8	1.0	L/ha	200	250	1	
			winter barley	0.8	1.0	L/ha	200	250	1	
			spring triticale	0.8	1.0	L/ha	200	250	1	
			winter triticale	0.8	1.0	L/ha	200	250	1	
			winter oilseed rape	0.8	1.0	L/ha	200	250	1	
10	Astar 250 SC	azoxystrobin - 250 g	winter wheat	0.8	1.0	L/ha	200	250	1	
			rye	0.8	1.0	L/ha	200	250	1	
			spring barley	0.8	1.0	L/ha	200	250	1	
			winter barley	0.8	1.0	L/ha	200	250	1	
			spring triticale	0.8	1.0	L/ha	200	250	1	
			winter triticale	0.8	1.0	L/ha	200	250	1	
			winter oilseed rape	0.8	1.0	L/ha	200	250	1	
11	Azaka 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring wheat		1.0	L/ha		250	2	
			winter triticale		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	

			winter barley		1.0	L/ha		250	2	
			winter rye		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	2	
12	Azarius-Pro 250 SC	azoxystrobin - 250 g	winter wheat	0.8	1.0	L/ha	200	250	1	
			spring wheat	0.8	1.0	L/ha	200	250	1	
			rye	0.8	1.0	L/ha	200	250	1	
			spring barley	0.8	1.0	L/ha	200	250	1	
			winter barley	0.8	1.0	L/ha	200	250	1	
			spring triticale	0.8	1.0	L/ha	200	250	1	
			winter triticale	0.8	1.0	L/ha	200	250	1	
			winter oilseed rape	0.8	1.0	L/ha	200	250	1	
13	Azbany 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
14	AzoGuard	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
15	Azoguard AZT 250 SC	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			winter triticale		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter oilseed rape		0.8	L/ha		200	1	
16	Azoksar 250 SC	azoxystrobin - 250 g	winter wheat	0.8	1.0	L/ha	200	250	1	
			spring wheat	0.8	1.0	L/ha	200	250	1	
			winter oilseed rape	0.8	1.0	L/ha	200	250	1	
			winter rye	0.8	1.0	L/ha	200	250	1	
17	Azoksar Super 250 SC	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter triticale		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
			winter oilseed rape		0.8	L/ha		200	1	
18	Azoksystrobi 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	

			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
19	Azoscan 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
20	Azoxin 250 SE	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			winter triticale		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
			spring oilseed rape	0.8	1.0	L/ha	200	250	1	
21	Azoxymoc	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
22	Azteck 250 SC	azoxystrobin - 250 g	spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
23	Azteck 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
24	Azyl 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
25	Azyl 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
26	Baltazar 250 SC	azoxystrobin - 250 g	winter wheat	0.8	1.0	L/ha	200	250	1	
			spring wheat	0.8	1.0	L/ha	200	250	1	
			rye	0.8	1.0	L/ha	200	250	1	
			winter oilseed rape	0.8	1.0	L/ha	200	250	1	
27	Bicanta	azoxystrobin - 125 g	winter oilseed rape		1.0	L/ha		125	2	
		difenoconazole - 125 g								
			spring oilseed rape		1.0	L/ha		125	1	
28	Blizzard Xtra 280 SC	azoxystrobin - 200 g	winter wheat		1.0	L/ha		200	2	
		cyproconazole - 80 g								
			spring wheat		1.0	L/ha		200	2	

			spring barley		1.0	L/ha		200	2	
			winter barley		1.0	L/ha		200	2	
			winter tritiale		1.0	L/ha		200	2	
			winter rye		1.0	L/ha		200	2	
			spring rye		1.0	L/ha		200	2	
29	Bolid 250 SE	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			winter tritiale		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
30	Chamane 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			winter tritiale		1.0	L/ha		250	2	
			winter rye		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
31	Clayton Augusta 250 SC	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter tritiale		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
			winter oilseed rape		0.8	L/ha		200	1	
32	Comrade	azoxystrobin - 200 g	winter wheat		1.0	L/ha		200	2	
		cyproconazole - 80 g								
33	Conclude AZT 250 SC	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter tritiale		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
			winter oilseed rape		0.8	L/ha		200	1	
34	Conclude SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	1	
			spring wheat		1.0	L/ha		250	1	
			spring barley		1.0	L/ha		250	1	
			winter barley		1.0	L/ha		250	1	
35	Custodia 320 SC	azoxystrobin - 120 g	winter oilseed rape		1.0	L/ha		120	1	
		tebuconazole - 200 g								
36	Cyproxy	azoxystrobin - 200 g	winter wheat		1.0	L/ha		200	2	

		ciproconazole - 80 g								
37	Demeter 250 SC	azoxystrobin - 250 g	winter wheat		1,0	L/ha		250	2	
			spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	
38	Dobromir 250 SC	azoxystrobin - 250 g	winter oilseed rape		0,8	L/ha		200	1	
		w 1 litrze środka								
			winter wheat		0,8	L/ha		200	1	
			spring wheat		0,8	L/ha		200	1	
			spring barley		0,8	L/ha		200	1	
			winter barley		0,8	L/ha		200	1	
			winter triticale		0,8	L/ha		200	1	
			winter rye		0,8	L/ha		200	1	
39	Dobromir Super 250 SC	azoxystrobin - 250 g	winter oilseed rape		0,8	L/ha		200	1	
			winter wheat		0,8	L/ha		200	1	
			spring wheat		0,8	L/ha		200	1	
			spring barley		0,8	L/ha		200	1	
			winter barley		0,8	L/ha		200	1	
			winter triticale		0,8	L/ha		200	1	
			winter rye		0,8	L/ha		200	1	
40	Dobromir Top 250 SC	azoxystrobin - 250 g	winter oilseed rape		0,8	L/ha		200	1	
			winter wheat		0,8	L/ha		200	1	
			spring wheat		0,8	L/ha		200	1	
			spring barley		0,8	L/ha		200	1	
			winter barley		0,8	L/ha		200	1	
			winter triticale		0,8	L/ha		200	1	
			winter rye		0,8	L/ha		200	1	
41	Elstrobin 250 SC	azoxystrobin - 250 g	winter oilseed rape	0,8	1,0	L/ha	200	250	1	
			winter wheat	0,8	1,0	L/ha	200	250	2	
			spring rye	0,8	1,0	L/ha	200	250	2	
42	Elvistar 250 SC	azoxystrobin - 250 g	winter oilseed rape	0,8	1,0	L/ha	200	250	1	
			winter wheat	0,8	1,0	L/ha	200	250	2	
			spring rye	0,8	1,0	L/ha	200	250	2	
43	Erazer	azoxystrobin - 250 g	winter wheat		1,0	L/ha		250	2	
			spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	
44	Florian 250 SC	azoxystrobin - 250 g	winter wheat	0,8	1,0	L/ha	200	250	1	

45	Fundand 450 SC	azoxystrobin - 200 g	winter wheat							
		difenoconazole - 125 g		0.9	1.0	L/ha	180	200	2	
		tebuconazole - 125 g								
			spring barley	0.9	1.0	L/ha	180	200	2	
			winter triticale	0.9	1.0	L/ha	180	200	2	
			winter rye	0.9	1.0	L/ha	180	200	2	
			winter oilseed rape	0.9	1.0	L/ha	180	200	1	
46	Fungistar	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter triticale		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
47	Globaztar 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	1	
			spring wheat		1.0	L/ha		250	1	
			spring barley		1.0	L/ha		250	1	
			winter barley		1.0	L/ha		250	1	
48	Globaztar AZT 250 SC	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter triticale		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
			winter oilseed rape		0.8	L/ha		200	1	
49	Greenlook 250 SC	azoxystrobin - 250 g	winter wheat	0.8	1.0	L/ha	200	250	2	
			winter oilseed rape	0.8	1.0	L/ha	200	250	1	
			spring rye	0.8	1.0	L/ha	200	250	2	
50	Kier 450 SC	azoxystrobin - 200 g	winter wheat							
		difenoconazole - 125 g		0.9	1.0	L/ha	180	200	2	
		tebuconazole - 125 g								
			winter triticale	0.9	1.0	L/ha	180	200	2	
			winter rye	0.9	1.0	L/ha	180	200	2	
			spring barley	0.9	1.0	L/ha	180	200	2	
			winter oilseed rape	0.9	1.0	L/ha	180	200	1	
51	Klemens 250 SC	azoxystrobin - 250 g	winter wheat	0.8	1.0	L/ha	200	250	1	
52	Komilfo 250 SC	azoxystrobin - 250 g	winter oilseed rape		1.0	L/ha		250	1	
			winter wheat		1.0	L/ha		250	2	

			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
53	Korazzo 250 SC	azoxystrobin - 250 g	winter oilseed rape		1.0	L/ha		250	1	
			winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
54	Ksystro 250 SC	azoxystrobin - 250 g	winter oilseed rape		1.0	L/ha		250	1	
			winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
55	Laiba 250 SC	azoxystrobin - 250 g	winter wheat	0.8	1.0	L/ha	200	250	1	
			spring wheat	0.8	1.0	L/ha	200	250	1	
			rye	0.8	1.0	L/ha	200	250	1	
			winter oilseed rape	0.8	1.0	L/ha	200	250	1	
56	Latifa 250 SC	azoxystrobin - 250 g	winter wheat	0.8	1.0	L/ha	200	250	1	
			spring wheat	0.8	1.0	L/ha	200	250	1	
			rye	0.8	1.0	L/ha	200	250	1	
			winter oilseed rape	0.8	1.0	L/ha	200	250	1	
57	Legado	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			spring wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
58	Lerak 200 EC	azoxystrobin - 75 g	winter wheat							
		tebuconazole - 125 g		1.5	2.0	L/ha	112.5	150	1	
			winter oilseed rape	1.5	2.0	L/ha	112.5	150	1	
59	Makler 250 SE	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			winter triticale		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
			spring oilseed rape	0.8	1.0	L/ha	200	250	1	
60	Makler Plus 250 SC	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter triticale		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
			winter oilseed rape		0.8	L/ha		200	1	
61	Mirador 250 SC	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	

			winter barley		0,8	L/ha		200	1	
			winter triticale		0,8	L/ha		200	1	
			winter rye		0,8	L/ha		200	1	
			winter oilseed rape		0,8	L/ha		200	1	
62	Mirador Forte 160 EC	azoxystrobin - 60 g	winter wheat		1,75	L/ha		105	1	
		tebuconazole - 100 g								
			winter triticale		1,75	L/ha		105	1	
			spring barley		1,75	L/ha		105	1	
63	Mistral Extra 280 SC	azoxystrobin - 200 g	winter oilseed rape	0,8	1,0	L/ha	160	200	1	
		cyproconazole - 80 g								
64	Mollis 450 SC	azoxystrobin - 200 g	winter triticale							
		difenoconazole - 125 g		0,9	1,0	L/ha	180	200	2	
		tebuconazole - 125 g								
			winter rye	0,9	1,0	L/ha	180	200	2	
			spring barley	0,9	1,0	L/ha	180	200	2	
			winter oilseed rape	0,9	1,0	L/ha	180	200	1	
			winter wheat	0,9	1,0	L/ha	180	200	2	
65	Netrin 250 SC	azoxystrobin - 250 g	winter wheat	0,8	1,0	L/ha	200	250	2	
			winter oilseed rape	0,8	1,0	L/ha	200	250	1	
			spring rye	0,8	1,0	L/ha	200	250	2	
66	Ortofin	azoxystrobin - 250 g	winter wheat		0,8	L/ha		200	1	
			spring wheat		0,8	L/ha		200	1	
			spring barley		0,8	L/ha		200	1	
			winter barley		0,8	L/ha		200	1	
			winter triticale		0,8	L/ha		200	1	
			winter rye		0,8	L/ha		200	1	
			winter oilseed rape		0,8	L/ha		200	1	
67	Pabizon 250 SC	azoxystrobin - 250 g	winter wheat	0,8	1,0	L/ha	200	250	1	
			spring wheat	0,8	1,0	L/ha	200	250	1	
			spring barley	0,8	1,0	L/ha	200	250	1	
			winter barley	0,8	1,0	L/ha	200	250	1	
			winter triticale	0,8	1,0	L/ha	200	250	1	
			spring triticale	0,8	1,0	L/ha	200	250	1	
			winter oilseed rape	0,8	1,0	L/ha	200	250	1	
			rye	0,8	1,0	L/ha	200	250	1	
68	Pablo 250 SC	azoxystrobin - 250 g	winter wheat	0,8	1,0	L/ha	200	250	1	
			spring wheat	0,8	1,0	L/ha	200	250	1	
			spring barley	0,8	1,0	L/ha	200	250	1	

			winter barley	0,8	1,0	L/ha	200	250	1	
			winter triticale	0,8	1,0	L/ha	200	250	1	
			spring triticale	0,8	1,0	L/ha	200	250	1	
			winter oilseed rape	0,8	1,0	L/ha	200	250	1	
			rye	0,8	1,0	L/ha	200	250	1	
69	Pablo 250 SC	azoxystrobin - 250 g	winter oilseed rape	0,8	1,0	L/ha	200	250	1	
			rye	0,8	1,0	L/ha	200	250	1	
70	Piastun 250 SC	azoxystrobin - 250 g	winter wheat		0,8	L/ha		200	1	
			spring wheat		0,8	L/ha		200	1	
			spring barley		0,8	L/ha		200	1	
			winter barley		0,8	L/ha		200	1	
			winter triticale		0,8	L/ha		200	1	
			winter rye		0,8	L/ha		200	1	
			winter oilseed rape		0,8	L/ha		200	1	
71	Promesa	azoxystrobin - 250 g	winter wheat		0,8	L/ha		200	1	
			spring wheat		0,8	L/ha		200	1	
			spring barley		0,8	L/ha		200	1	
			winter barley		0,8	L/ha		200	1	
			winter triticale		0,8	L/ha		200	1	
			winter rye		0,8	L/ha		200	1	
			winter oilseed rape		0,8	L/ha		200	1	
72	Quadris Gold	azoxystrobin - 125 g	winter oilseed rape		1,0	L/ha		125	2	
		difenoconazole - 125 g								
			spring oilseed rape		1,0	L/ha		125	2	
73	Rezat 250 SC	azoxystrobin - 250 g	winter wheat		1,0	L/ha		250	2	
			spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	
74	Robin 250 SC	azoxystrobin - 250 g	spring rye	0,8	1,0	L/ha	200	250	1	
			spring oilseed rape	0,8	1,0	L/ha	200	250	1	
			winter wheat	0,8	1,0	L/ha	200	250	1	
			spring triticale	0,8	1,0	L/ha	200	250	1	
			spring barley	0,8	1,0	L/ha	200	250	1	
			winter oilseed rape	0,8	1,0	L/ha	200	250	1	
			spring wheat	0,8	1,0	L/ha	200	250	1	
			winter triticale	0,8	1,0	L/ha	200	250	1	
			winter rye	0,8	1,0	L/ha	200	250	1	
75	Sinstar 250 SC	azoxystrobin - 250 g	winter triticale		1,0	L/ha		250	2	
			winter rye		1,0	L/ha		250	2	
			winter wheat		1,0	L/ha		250	2	

			winter barley		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	
76	Skymaster 280 SC	azoxystrobin - 200 g	spring oilseed rape		1,0	L/ha		200	1	
		cyproconazole - 80 g								
			winter oilseed rape		1,0	L/ha		200	1	
			spring rye		1,0	L/ha		200	2	
			winter wheat		1,0	L/ha		200	2	
			spring wheat		1,0	L/ha		200	2	
			spring barley		1,0	L/ha		200	2	
			winter barley		1,0	L/ha		200	2	
			winter triticale		1,0	L/ha		200	2	
			winter rye		1,0	L/ha		200	2	
77	Starjet 250 SC	azoxystrobin - 250 g	winter oilseed rape	0,8	1,0	L/ha	200	250	1	
			winter wheat	0,8	1,0	L/ha	200	250	1	
			spring wheat	0,8	1,0	L/ha	200	250	1	
			winter rye	0,8	1,0	L/ha	200	250	1	
78	Strobin 250	azoxystrobin - 250 g	winter wheat		1,0	L/ha		250	2	
			spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	
79	Strobin 250-I	azoxystrobin - 250 g	winter wheat		1,0	L/ha		250	2	
			spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
80	Strobin 250-II	azoxystrobin - 250 g	winter wheat		1,0	L/ha		250	2	
			spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	
81	Symetra 325 SC	izopirazam - 125 g, azoksystrobina - 200 g	spring oilseed rape		1,0	L/ha		200	1	
			winter oilseed rape		1,0	L/ha		200	1	
82	Tascom 250 SC	azoxystrobin - 250 g	winter wheat		1,0	L/ha		250	2	
			spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	
83	Tazer 250 SC	azoxystrobin - 250 g	winter wheat		1,0	L/ha		250	2	
			spring barley		1,0	L/ha		250	2	
			winter barley		1,0	L/ha		250	2	
			winter oilseed rape		1,0	L/ha		250	1	
84	Tiger 250 SC	azoxystrobin - 250 g	winter wheat		1,0	L/ha		250	2	
			spring barley		1,0	L/ha		250	2	

			winter barley		1.0	L/ha		250	2	
			winter oilseed rape		1.0	L/ha		250	1	
85	Yo-Yo	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	1	
			spring wheat		1.0	L/ha		250	1	
			spring barley		1.0	L/ha		250	1	
			winter barley		1.0	L/ha		250	1	
86	Zaftra AZT 250 SC	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
			winter triticale		0.8	L/ha		200	1	
			winter oilseed rape		0.8	L/ha		200	1	
87	Zaftra SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	1	
			spring wheat		1.0	L/ha		250	1	
			spring barley		1.0	L/ha		250	1	
			winter barley		1.0	L/ha		250	1	
88	Zakeo 250 SC	azoxystrobin - 250 g	winter wheat		0.8	L/ha		200	1	
			spring wheat		0.8	L/ha		200	1	
			spring barley		0.8	L/ha		200	1	
			winter barley		0.8	L/ha		200	1	
			winter rye		0.8	L/ha		200	1	
			winter triticale		0.8	L/ha		200	1	
			winter oilseed rape		0.8	L/ha		200	1	
89	Zakeo Xtra 280 SC	azoxystrobin - 200 g	winter oilseed rape		1.0	L/ha		200	1	
		cyproconazole - 80 g								
			spring oilseed rape		1.0	L/ha		200	1	
90	Zetar 250 SC	azoxystrobin - 250 g	winter oilseed rape		1.0	L/ha		250	1	
			winter wheat		1.0	L/ha		250	2	
			spring barley		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
91	Zoxis 250 SC	azoxystrobin - 250 g	winter wheat		1.0	L/ha		250	2	
			winter triticale		1.0	L/ha		250	2	
			winter barley		1.0	L/ha		250	2	
92	Zoxy plus	azoxystrobin - 200 g	winter wheat		1.0	L/ha		200	2	
		cyproconazole - 80 g								

Justification for the ratio of active substances

- There is no overlap in activity against the pathogen targets a case based on the rates of the solo products.
- Applied dose of each individual active substance in a mixture is not greater than the corresponding dose of the same active substance in a solo product.
- the primary tests were not conducted because there is no product with prothioconazole and azoxystrobin, but each active substance is well known in all over the Europe. There is a lot of product registered in Poland with solo prothioconazole and azoxystrobin. There are 63 products registered in Poland with mixture prothioconazole and 19 products registered in Poland with mixture azoxystrobin with one or two other active substances, what means that mixing this active substances is well known and is not new use for market.

Acceptability of the resistance risk

CHR/F/PROTAZO 375 SC is a fungicide containing active substances: 175 g/L prothioconazole and 200 g/L azoxystrobin.

According to information available on the website: <https://www.frac.info/fungicide-resistance-management> Prothioconazole belongs to group 3, Chemical Group: triazolinthiones (DMI fungicides class, FRAC group – G1 DMI) General Use Recommendations (all Crops). prothioconazole

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.

Resistance to DMI fungicides has been found for several pathogens including *Erysiphe graminis tritici*. The applicant considers the risk of resistance developing is high for powdery mildew, moderate for leaf spots (*Septoria tritici*, *Pyrenophora teres*, *Rhynchosporium secalis*) and eyespot (*Pseudocercospora herpotrichoides*) for DMI fungicides including prothioconazole. A series of sensitivity studies has been carried out through-out Europe to establish the baseline sensitivity of cereal mildew, net blotch, leaf spot and eyespot. In addition a study was conducted to demonstrate crossresistance between prothioconazole and a DMI fungicide tebuconazole for a range of cereal diseases.

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, 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.

Azoxystrobin belongs to Group 11, Chemical Group: methoxy-acrylates. According to Fungicide Resistance Action Committee active substance Azoxystrobin belongs to the group of fungicides that present a high risk for resistance development

Azoxystrobin has a novel mode of action and as trials till now show does not seem to fall into the same cross-resistance group as any other site specific fungicide where resistance has been previously documented. Azoxystrobin acts at a specific site of organism, viz bc 1 cytochrome complex, blocking electron transport and thus depriving the organism of its energy source. The selective responses of target populations following the introduction of azoxystrobin will be influenced by the strength of the selection pressure imposed and genetic capability of the target pathogen to respond to the selection pressure. One strategy to minimize the development of resistance and reduce selection pressures on organisms treated with azoxystrobin is to spray azoxystrobin in the rotation or alternation with other fungicides from different cross-resistance groups. Several studies on cereal powdery mildews utilizing the field application of mixtures or alternations of DMI's with morpholines or mainopyrimidine fungicides have shown the benefit of this approach.

Experimental data regarding the influence of dose rate on selection pressure are less convincing though there is evidence to support the thesis that where the selective response is quantitative, (as it is with strobilurins in yeast) more frequent applications of lower doses favour resistance development. Recommendations on use rate and timing have been made based on this evidence.

The use of disease resistant crop varieties and appropriate agronomic and hygienic practices such as crop rotation and removal of diseased parts of perennial crop plants are also valuable anti-resistance measures. According to information available on the website: <https://www.frac.info/fungicide-resistance-management> Azoxystrobin belongs to Group 11, Chemical Group: methoxy-acrylates

According to submitted efficacy/selectivity data none of the tested pathogens showed high tolerance to the product CHR/F/PROTAZO 375 SC.

CHR/F/PROTAZO 375 SC is a fungicide containing active substances: 175 g/L of prothioconazole and 200 g/L azoxystrobin, which belong to different FRAC groups (different mode of action). The mode of action involving a 'multi-site' action may indicate a lower risk to developing weeds resistance.

In conclusion, in the applicant's opinion, this level of pathogens resistance risk should be considered to be acceptable.

Comments of zRMS:	<p>Preliminary range finding tests on product CHR/F/PROTAZO 375 SC are not reported. The product contains well-known active substances that has been used for many years in agricultural practice: prothioconazole 175 g/l and azoxystrobin 200 g/l. The Applicant presented justification for potential advantages of the new mixture. Two active substances have different mode of action (no overlapping activity) and with systemic and foliar activity CHR/F/PROTAZO 375 SC might be a good alternative to disease resistance management in cereals and oilseed rape, compared to the fungicides containing one or two actives already registered.</p> <p>Efficacy of tested formulation was compared to efficacy of products based on solo active substances with similar pattern of application: Azoxin 250 SE/Bolid 250 SE/Makler 250 SE (dose rate max 2 x 1,0 l/ha) containing azoxysyrobin as active substance, Protikon 250 EC/Virid 250 EC (dose rate max 2 x 0,8 l/ha) containing active substance prothioconazole. CHR/F/PROTAZO 375 SC with two actives gives opportunity to controll more spectrum of targeted diseases.</p>
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	Placing on the market the mixture with 2 active substances means also less packaging and reducing number of operations for operators.
	The Applicant showed advantages of the new mixture what might be enough justification to place CHR/F/PROTAZO 375 SC on the market.

Table 3.2-7: Efficacy of active substance components in test product – not applicable

Not applicable

Table 3.2-8: Percentage of control of the different ratios at timing of assessment (e.g. 10 to 14 days after application).- not applicable

Not applicable

Summary and conclusions on the preliminary trials

Not applicable

3.2.2 Minimum effective dose tests (KCP 6.2)

No specific studies were conducted to fill this data point.

On the basis of information included in KCP point 3.2.3 the assessment of efficacy and phytotoxicity trials in KCP point 3.2.3 of herbicide CHR/F/PROTAZO in winter wheat, winter triticale, spring barley and winter oilseed rape the minimum effective dose of product CHR/F/PROTAZO used is:

Used solo:

1.0 L/ha once a season in winter wheat, winter triticale, spring barley and winter oilseed rape which are corresponding to 175 g/l prothioconazole and 200g/L azoxystrobin.

The minimum effective trials were not conducted.

Crop(s) 1 AND/OR Target(s) 1

Not applicable

Table 3.2-9: Minimum effective dose. Efficacy of product at proposed label rate, at X% and Y% dose rates on target 1 at assessment timing against “Crop(s) 1 AND/OR Target(s) 1”.

No specific studies were conducted to fill this data point.

Crop(s) 2 AND/OR Target(s) 2

Not applicable

Summary and conclusions on the minimum effective dose

Not applicable

Comments of zRMS:	The claimed dose rate is 1,0 l/ha. The dose justification of 1,0 l/ha of CHR/F/PROTAZO containing prothioconazole and azoxystrobin is supported by data from efficacy trials. In the 139 trials lower doses rates were also tested (0,6; 0,8; 0,9; 1,0 l/ha). In the efficacy trials of CHR/F/PROTAZO showed in general a higher level of efficacy against all diseases, when it was applied in the highest dose rate of 1,0 l/ha.
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3.2.3 Efficacy tests (KCP 6.2)

Materials and methods

The applicant submitted 139 reports (in total) showing the results in research into product selectivity carried out in 2019, 2020 and 2021 in winter wheat (43 trials) winter triticale (37 trials), spring barley (40 trials) and winter oil seed rape (19 trials). List of these reports is contained in Appendix 1

Site

Trials were conducted in different regions in Poland, Czech Republic and Germany where winter wheat, spring barley, winter triticale and winter oilseed rape are grown commercially. The experiment was established on a set of complete randomized blocks in 4 replications. Details on trial sites, applications and data on effectiveness are included in Appendix 4 and 5

Testing units

Efficacy and Selectivity studies on herbicide CHR/F/PROTAZO were performed in 2019, 2020, 2021 by:

- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland
- Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland
- SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic
- ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic
- SynTech Research Germany, Loofter Str. 9, 25593 Christinenthal, Germany
- Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzbach, Germany
- ZS Krásné Údolí, Krásné Údolí 141, 364 01 Toužim, Czech Republic
- Zkušební stanice Rýmařov, s.r.o., 8.května 61, 795 01 Rýmařov, The Czech Republic
- Zkušební stanice Kluky spol. s r.o. 398 19 Kluky/Písek, Czech Republic

Experimental details

The efficacy trials were designed, conducted and reported according to the following EPPO guidelines:

- PP 1/135 (3) Phytotoxicity assessment
- PP 1/152 (3) Design and analysis of efficacy evaluation trials
- PP 1/181 (3) Conduct and reporting of efficacy evaluation trials including good experimental practice
- PP 1/78(3) Root, stem, foliar and pod diseases on oilseed rape
- PP 1/26(4) Foliar and ear diseases on cereals
- PP 1/28(3) Eyespot of cereals

Assessment methods

Statistical Analysis

The treatment means of the assessment dates were calculated and compared using Student-Newman-Keuls test ($P=0.05$).

The statistical procedures were applied using ARM 2019.8 software

Assessment of efficacy

Efficacy was recorded by estimation and counting of severity of disease. The level of infection was assessed on 10 randomly selected plants (part rated – tiller).

Assessment of efficacy in winter oilseed rape

Efficacy was recorded by estimation and counting of severity of disease. The level of infection was assessed on 25 randomly selected plants.

Assessment infection of SCLESC on stems in five classes (0-4)

- Class 0: no infection
- Class 1: <50% infection
- Class 2: >50% infection but strength of stem unaffected
- Class 3: >50% infection, stem weakened
- Class 4: death

Assessment infection of PSDCHE, FUSASP on stems in five classes (0-4) Stem diseases:

Efficacy was recorded by estimating and counting the severity and incidence of disease. The level of infection was assessed on 25 ear-bearing tillers randomly selected from each plots.

To assess the degree of stem infestation, a 4-point scale (I-IV classes) was used, in which:

Class I: Healthy: no symptoms

Class II: Slight lesions: less than 50% of tiller circumference attacked at place where infection is most severe

Class III: Moderate lesions: more than 50% of tiller circumference attacked at place where infection is most severe, but tissue still firm

Class IV: Severe lesions: 100% of tiller circumference attacked with tissue rotted (softening)

In addition to the single values for each of the four classes (I-IV), a total damage value (index) was calculated by used, the following formula:

$$index = \frac{(n(I) * 0,25) + (n(II) * 0,75) + (n(III) * 0,75) + (n(IV) * 0,75)}{n(I + II + III + IV)}$$

Assessment of phytotoxicity

Phytotoxicity were assessed by visual estimation of the intensity on an overall plot basis on a percentage scale 0-100 % (0=no damage).

Harvest and qualitative analysis

The crop is harvested with a combine harvester from the central part of each plot. Sample for each plots analyzed on on the FOSS Infratec 1241 grain analyzer

Applications methods and rates

The applications were carried out by a T-BOOM – BACCAI, plot sprayer – BACSPR, plot sprayer BICSPR, Schachtner – SPRBIC, knapsack "Gloria".

Tested fungicide was applied at spring in the growth stage:

- winter wheat: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,
- winter triticale: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,
- spring barley: once per season at BBCH 49-51 or twice per season at A: BBCH 29-37, B: BBCH 49-59,
- winter oilseed rape: once per season at BBCH 59-69.

The product CHR/F/PROTAZO has been used:

in winter wheat at the following rates of 0,8, 0,9, 1,0 L/ha

in winter triticale at the following rates of 0,8, 0,9, 1,0 L/ha

in spring barley at the following rates of 0,8, 0,9, 1,0 L/ha

in winter oilseed rape at the following rates of 0,8, 0,9, 1,0 L/ha

Delaro 325 SC, Makler 250 SE, Azoxin 250 SE were used as a reference product in winter wheat, winter triticale.

Amistar, Proline, Azbany, Torero were used as a reference product in winter wheat.

Amistar, Proline, Input Classic, Azbany, Torero were used as a reference product in winter triticale.

Makler 250 SE, Azoxin 250 SE, Elatus Era 225 EC, Fandango 200 EC, Tazer 250 S.C., Delaro 325 S.C., Amistar, Proline, Azbany were used as a reference product in spring barley.

Makler 250 SE, Toledo Extra 430 S.C., Tilmor 240 EC, Amistar, Proline, Ortiva, Propulse were used as a reference product in winter oilseed rape.

The experiment was established on a set of complete randomized blocks in 4 replications.

Experiment pattern:

Winter wheat once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A	BBCH 25-69
3	CHR/F/PROTAZO 375 SC	0,9	A	BBCH 25-69
4	CHR/F/PROTAZO 375 SC	1,0	A	BBCH 25-69
5	Delaro 325 SC	1,0	A	BBCH 30-69
6	Makler 250 SE	1,0	A	BBCH 30-65

Winter wheat twice per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A, B	A=BBCH 31-39 B= 49-59
3	CHR/F/PROTAZO 375 SC	0,9	A, B	A=BBCH 31-39 B= 49-59
4	CHR/F/PROTAZO 375 SC	1	A, B	A=BBCH 31-39 B= 49-59
5	Delaro 325 SC	1	A	A=BBCH 32-39 B= 49-55
6	Makler 250 SE	1	A	A=BBCH 31-39 B= 49-59

Winter triticale once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A	BBCH 25-69
3	CHR/F/PROTAZO 375 SC	0,9	A	BBCH 25-69
4	CHR/F/PROTAZO 375 SC	1,0	A	BBCH 25-69
5	Delaro 325 SC	1,0	A	BBCH 32-69
6	Makler 250 SE	1,0	A	BBCH 30-65

Winter triticale twice per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A, B	A:BBCH 31-39 B:BBCH 49-59
3	CHR/F/PROTAZO 375 SC	0,9	A, B	A:BBCH 31-39 B:BBCH 49-59
4	CHR/F/PROTAZO 375 SC	1	A, B	A:BBCH 31-39 B:BBCH 49-59
5	Delaro 325 SC	1	A, B	A:BBCH 32-39 B:BBCH 49-55
6	Makler 250 SE	1	A, B	A:BBCH 31-39 B:BBCH 49-59

Spring barley once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,6	A	BBCH 49-51
3	CHR/F/PROTAZO 375 SC	0,8	A	BBCH 49-51
4	CHR/F/PROTAZO 375 SC	1	A	BBCH 49-51
5	Fandango 200 EC	1	A	BBCH 49-51
6	Tazer 250 S.C.	1	A	BBCH 49-51

Spring barley twice per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,6	A, B	A: BBCH 29-37; B: BBCH 49-59
3	CHR/F/PROTAZO 375 SC	0,8	A, B	A: BBCH 29-37; B: BBCH 49-59
4	CHR/F/PROTAZO 375 SC	1	A, B	A: BBCH 29-37; B: BBCH 49-59
5	Elatus Era 225 EC	1	A	BBCH 31-37
6	Makler 250 SE	1	A, B	A: BBCH 30-37; B: BBCH 49-59

Winter oilseed rape once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A	BBCH 59-69
3	CHR/F/PROTAZO 375 SC	0,9	A	BBCH 59-69
4	CHR/F/PROTAZO 375 SC	1,0	A	BBCH 59-69
5	Toledo Extra 430 SC	0,75	A	BBCH 59-69
6	Makler 250 SE	1,0	A	BBCH 59-65

Details of experiments

Winter wheat Poland 2019 a

Report code	A.T/2019/028/PO	A.T/2019/029/PO	A.T/2019/030/PO	A.T/2019/031/PO	SRPL19-136-336FE	SRPL19-137-336FE	SRPL19-138-336FE
Location	Brzeźno / Poland	Wilcze / Poland	Kakulin / Poland	Ślawęcín / Poland	Żnin / Poland	Łęgajny / Poland	Mrówino / Poland
Plant/cultivar	Winter wheat / Arkadia	Winter wheat / Arkadia	Winter wheat / Arkadia	Winter wheat / Hondia	winter wheat / Tonacja	Winter wheat / Arkadia	Winter wheat / Jantarka
Seeding date	30.09.2018	18.09.2018	30.09.2018	15.09.2018	15.09.2018	20.09.2018	19.09.2018
Seeding rate	160 kg/ha	200 kg/ha	170kg/ha	180kg / ha	220 kg/ha	220 kg/ha	200kg/ha
Forecrop	winter oilseed rape	winter oilseed rape	winter oilseed rape	winter oilseed rape	winter wheat	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	T-BOOM	BACCAI	BACSPR
Date of treatment A	17.05.2019	22.05.2019	04.06.2019	07.06.2019	26.04.2019	27.04.2019	22.04.2019
Date of treatment B	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 39-41	BBCH 45-47	BBCH 61-65	BBCH 61-65	BBCH 30-31	BBCH 30-31	BBCH 31-32
Plant development phase B	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	loamy sand	sandy loam	loamy sand	loamy sand	clayey sand	sandy loam	sandy clay loam
pH	6,1	6,3	5,7	5,1	6,3	5	6,9
Water (l/ha) A; B; C	200	200	200	200	300	200	200
Plot size	2,5x10=25m2	2,5x8=20 m2	2,5X8=20n2	2,5x10=25m2	3x7=21m2	3x8=24m2	3x8=24m2

Winter wheat Poland 2019 b

Report code	SRPL19-139-336FE	SRPL19-140-336FE	SRPL19-141-336FE	SRPL19-144-336FE	SRPL19-143-336FE	SRPL19-146-336FE
Location	Krasienin / Poland	Turze / Poland	Niemce / Poland	Gietrzwałd / Poland	Pokrzywno / Poland	Jankowice Wilekie / Poland
Plant/cultivar	Winter wheat / Sailor	Winter wheat / Linus	Winter wheat / Jantarka	Winter wheat / Delawar	Winter wheat / Arkadia	Winter wheat / Patras
Seeding date	26.09.2018	25.09.2018	18.09.2018	18.09.2018	20.09.20218	12.11.2018
Seeding rate	200 kg/ha	190 kg/ha	220 kg/ha	190 kg/ha	200kg/ha	170 kg/ha
Forecrop	winter triticale	sugar beet	spring barley	winter wheat	sugar beet	sugar beet
Type of sprayer	BACSPR	T-BOOM	BACSPR	BACCAI	T-BOOM	T-BOOM
Date of treatment A	26.04.2019	20.05.2019	11.06.2019	04.05.2019	04.05.2019	10.05.2019
Date of treatment B	n/a	n/a	n/a	30.05.2019	30.05.2019	31.05.2019
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 30-32	BBCH 47-49	BBCH 61-69	BBCH 37	BBCH 35-36	BBCH 35-36
Plant development phase B	n/a	n/a	n/a	BBCH 55-57	BBCH 56-59	BBCH 57-59
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	sandy loam	Clay loam	sandy clay loam	sandy loam	clay loam	loamy sand
pH	6,9	6,5	6,87	5,2	6,7	6,9
Water (l/ha) A; B; C	300	200	300	200	200	300
Plot size	3x7=21m2	3x8=24m2	3x8=24m2	3x7=21m2	3x7=21m2	3x6=18m2

Winter wheat Czech Republic 2019

Report code	SRCZ19-022-301FE	SRCZ19-024-301FE	SRCZ19-023-301FE	SRCZ19-025-301FE	SRCZ19-026-301FE	SRCZ19-029-301FE	SRCZ19-027-301FE	SRCZ19-030-301FE
Location	Sekerkovy Loučky / Czech Republic	Lukavice / Czech Republic	Lukavice / Czech Republic	Lustenice / Czech Republic	Sekerkovy Loučky/ Czech Republic	Horní Kounice / Czech republic	Březina / Czech Republic	Příložany / Czech Republic
Plant/cultivar	Winter wheat / Avenue	Winter wheat / Pannonia	Winter wheat / Pannonia	Winter wheat / Amandus	Winter wheat / Avenue	winter wheat / Gordian	Winyter wheat / Butterfly	Winter wheat / Patras
Seeding date	15.09.2018	27.09.2018	27.09.2018	09.10.2018	24.09.2018	27.09.2018	20.10.2018	25.10.2018
Seeding rate	190 kg/ha	210 kg/ha	210 kg/ha	180 kg/ha	190 kg/ha	220 kg/ha	180kg/ha	190 kg/ha
Forecrop	winter wheat	Winter wheat	no data	sunflower	winter wheat	winter wheat	winter oilseed rape	maize
Type of sprayer	BACSPR	BACSPR	BACSPR	BACSPR	BACSPR	BACCAI	BACCAI	BACCAI
Date of treatment A	15.04.2019	20.04.2019	20.04.2019	22.04.2019	27.05.2019	07.06.2019	17.05.2019	17.06.2019
Date of treatment B	n/a	n/a	n/a	n/a	n/a	n/a	06.06.2019	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 28-31	BBCH 30-31	BBCH 30-31	BBCH 30-31	BBCH 45-47	BBCH 61-67	BBCH 37-41	BBCH 67-71
Plant development phase B	n/a	n/a	n/a	n/a	n/a	n/a	BBCH 57-59	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	loam	loam	loam	sandy loam	loam	loamy sand	loam	loamy sand
pH	6,3	5,9	5,9	7,0	6,4	6,1	5,8	6,5
Water (l/ha) A; B; C	225	225	225	225	225	300	225	300
Plot size	3x7=21m2	3x7=21m2	3x7=21m2	3x7=21m2	3x7=21m2	2,5x9=22,5m2	3x7=21m2	2,5x8=20m2

Winter wheat Poland 2020 a

Report code	A.T/2020/009/PO	A.T/2020/010/PO	A.T/2020/011/PO	A.T/2020/012/PO	A.T/2020/013/PO
Location	Rybowo / Poland	Wilcze / Poland	Stęszew / Poland	Lulkowo / Poland	Gołańcz / Poland
Plant/cultivar	Winter wheat / Arkadia	Winter wheat / Medalistka	Winter wheat / Euforia	Winter wheat / RGT Reform	Winter wheat / Arkadia
Seeding date	27.09.2019	17.09.2019	27.09.2019	20.09.2019	27.09.2019
Seeding rate	180 kg/ha	200 kg/ha	260 kg/ha	135 kg/ha	180 kg / ha
Forecrop	winter triticale	winter wheat	winter wheat	winter wheat	winter triticale
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment A	17.03.2020	17.03.2020	16.03.2020	16.03.2020	06.04.2020
Date of treatment B	07.04.2020	07.04.2020	08.04.2020	08.04.2020	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 25-30	BBCH 28-30	BBCH 28-30	BBCH 25-28	BBCH 30-32
Plant development phase B	BBCH 30-32	BBCH 31-32	BBCH 31-32	BBCH 31-32	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a
Soil type	sandy loam	sandy loam	sandy loam	sandy loam	sandy loam
pH	6,0	6,0	7,8	5,8	6,0
Water (l/ha) A; B; C	200	200	200	300	300
Plot size	2,5x9,5=23,75m2	2,5x8=20 m2	2,5x8=20 m2	2,5x10=25m2	2,5x9,5=23,75m2

Winter wheat Poland 2020 b

Report code	AF/20/PO/1/Pr/01	AF/20/PO/1/Zl/02	AF/20/PO/1/Pr/03	AF/20/PO/1/Br/04	AF/20/PO/1/Br/05
Location	Przybroda / Poland	Złotniki / Poland	Przybroda / Poland	Brody / Poland	Brody / Poland
Plant/cultivar	Winter whet / Arkadia	Winter wheat / Bogatka	Winter whet / Arkadia	Winter wheat / Tonacja	Winter wheat / Tonacja
Seeding date	24.09.2019	25.09.2019	24.09.2019	25.09.2019	25.09.2019
Seeding rate	220 kg/ha	133 kg/ha	220 kg/ha	190kg/ha	190 kg/ha
Forecrop	winter wheat	winter oilseed rape	winter wheat	maize	maize
Type of sprayer	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR
Date of treatment A	18.03.2020	18.03.2020	20.05.2020	27.05.2020	09.06.2020
Date of treatment B	07.04.2020	08.04.2020	n/a	n/a	n/a
Date of treatment C	15.04.2020	24.04.2020	n/a	n/a	n/a
Plant development phase A	BBCH 24-26	BBCH 27-29	BBCH 47-51	BBCH 43-47	BBCH 65-71
Plant development phase B	BBCH 29-31	BBCH 28-31	n/a	n/a	n/a
Plant development phase C	BBCH 31-33	BBCH 31-33	n/a	n/a	n/a
Soil type	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	5,8	6,1	5,8	6,7	6,7
Water (l/ha) A; B; C	200	200	200	230	230
Plot size	2x12=24m2	2,5x8=20m2	2x12=24m2	2x9=18m2	2x9=18m2

Winter wheat Czech Republic 2020

Report code	SRCZ20-052-301FE	CHR_F_PROTAZO_EFF20_CZ02	SRCZ20-054-301FE	SRCZ20-055-301FE
Location	Zaječov/Czech Republic	Krasne Udoli/Czech Republic	Všežany/Czech Republic	Tavíkovice/Czech Republic
Plant/cultivar	Winter wheat / Gallus	Winter wheat / Energo	Winter wheat / Hybery	Winter wheat / Tobak
Seeding date	28.09.2019	21.09.2019	20.09.2019	26.09.2019
Seeding rate	220 kg/ha	200 kg/ha	65 kg/ha	220 kg/ha
Forecrop	winter wheat	winter barley	winter oilseed rape	no data
Type of sprayer	BACSPR	SPRAYE	BACSPR	BACCAI
Date of treatment A	11.04.2020	07.05.2020	11.06.2020	04.06.2020
Date of treatment B	n/a	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 30-31	BBCH 31-32	BBCH 65-69	BBCH 55-65
Plant development phase B	n/a	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a
Soil type	loam	sandy loam	loamy clay	loamy clay
pH	6,7	6,2	6,5	6,2
Water (l/ha) A; B; C	225	300	225	300
Plot size	3x6=18m2	3x8,6=25,8 m2	3x6=18m2	2,5x9=22,5m2

Winter wheat Germany 2020

Report code	SRDE20-101-301FE	SRDE20-102-301FE	SRDE20-103-301FE	SRDE20-104-301FE	SRDE20-105-301FE	SRDE20-106-301FE	CHR_F_PROTAZO_EFF5_DE14	CHR_F_PROTAZO_EFF5_DE15
Location	Untergruppenbach /Germany	Neckarwestheim /Germany	Möckmühl-Korb/Germany	Möckmühl-Kressbach /Germany	Möckmühl/Germany	Möckmühl-Korb/Germany	Wittighausen/Germany	Vreden/Germany
Plant/cultivar	Winter wheat / RGT Reform	Winter wheat / RGT Reform	Winter wheat / Barranco	Winter wheat / RGT Reform	Winter wheat / Barranco	Winter wheat / Barranco	Winter wheat / Elise	Winter wheat / Bergamo
Seeding date	28.10.2019	16.10.2019	08.11.2019	06.11.2019	21.10.2019	08.11.2019	14.10.2019	24.10.2019
Seeding rate	280 kg/ha	290 kg/ha	290 kg/ha	290 kg/ha	290 kg/ha	290 kg/ha	170 kg/ha	320 seed/m2
Forecrop	winter wheat	sugar beet	winter wheat	potato	winter wheat	winter wheat	maize	maize
Type of sprayer	BACCAI	SPRAYE	SPRAYE	SPRAYE	SPRAYE	SPRAYE	BACSPR	BACSPR
Date of treatment A	24.04.2020	24.04.2020	23.04.2020	23.04.2020	18.05.2020	19.06.2020	29.05.2020	28.05.2020
Date of treatment B	n/a	n/a	n/a	n/a	01.06.2020	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 25-28	BBCH 25-28	BBCH 25-28	BBCH 25-28	BBCH 31-34	BBCH 61-69	BBCH 65	BBCH 61
Plant development phase B	n/a	n/a	n/a	n/a	BBCH 49-59	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	silty clay loam	silty sand	silty clay	silty clay loam	silty clay	silty clay	loam	sand
pH	6.4	7.2	6.5	6.9	6.5	6.5	7.3	4.8
Water (l/ha) A; B; C	300	300	300	300	300	300	300	300
Plot size	3x8=24m2	3x8=24m2	3x8=24m2	3x8=24m2	2.5x10=25m2	3x8=24m2	2.5x9=22.5m2	1.5x10=15m2

Winter triticale Poland 2019

Report code	SRPL19-142-336FE	SRPL19-143-336FE	A.T/2019/032/PZO	A.T/2019/033/PZO	A.T/2019/034/PZO
Location	Wola Kalkowa/Poland	Znin / Poland	Chojnice / Poland	Nowe Gronowo / Poland	Chojnice / Poland
Plant/cultivar	Winter triticale /Borowik	Winter triticale / Grenado	Winter triticale / Meloman	Winter triticale / Aveo	Winter triticale / Meloman
Seeding date	17.09.2018	17.09.2018	17.09.2018	24.09.2018	17.09.2018
Seeding rate	200 kg/ha	220 kg/ha	160 kg/ha	180 kg/ha	160 kg/ha
Forecrop	maize	spring barley	winter wheat	rye	winter wheat
Type of sprayer	BACCAI	BICCAI	BICCAI	BACCAI	BICCAI
Date of treatment A	06.05.2019	26.04.2019	07.05.2019	01.05.2019	04.06.2019
Date of treatment B	n/a	n/a	n/a	22.05.2019	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 34-36	BBCH 31-32	BBCH 39-41	BBCH 33-37	BBCH: 61-65
Plant development phase B	n/a	n/a	n/a	BBCH 54-56	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a
Soil type	clayey sand	clayey sand	loamy sand	sand	loamy sand
pH	6,3	6,3	5,8	4,9	5,8
Water (l/ha) A; B; C	300	300	200	200	200
Plot size	3x8=24m2	3x7=21m2	2,5x10 = 25m2	2,5x8=20m2	2,5x10 = 25m2

Winter triticale Czech Republic 2019

Report code	CZOR-SYT19-TTLSS-030RYM	CZOR-SYT19-TTLSS-051NEC	CHR_F_PROTAZO_CZ11	CZOR-SYT19-TTLSS-031RYM
Location	Rymarov / Czech Republic	Nechanice / Czech Republic	Stachy-Chalupy/ Czech Republic	Rymarov / Czech Republic
Plant/cultivar	Winter triticale / Modus	winter triticale / Cedrico	winter triticale /Cappricia	winter triticale /Triamant
Seeding date	15.10.2018	17.10.2018	25.09.2018	15.10.2018
Seeding rate	220 kg/ha	210 kg/ha	245 kg/ha	220 kg/ha
Forecrop	Lupine	pea	winter wheat	Lupine white
Type of sprayer	BICCAI	BICCAI	BICCAI	SPRAYE
Date of treatment A	25.05.2019	21.05.2019	23.05.2019	20.06.2019
Date of treatment B	n/a	10.06.2019	12.06.2019	n/a
Date of treatment C	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 39-41	BBCH 39	BBCH 31-32	BBCH 61
Plant development phase B	n/a	BBCH 59-61	BBCH 55-59	n/a
Plant development phase C	n/a	n/a	n/a	n/a
Soil type	sandy loam	sandy clay loam	loamy sand	sandy loam
pH	6,4	6,3	5,5	6,4
Water (l/ha) A; B; C	300	200	300	300
Plot size	1,375x14,54=19,9925 m2	2,7x9=24,3m2	2x10=20m2	1,375x14,54=19,9925 m2

Winter triticale Poland 2020 a

Report code	A.T/2020/014/PZO	A.T/2020/015/PZO	A.T/2020/016/PZO	A.T/2020/017/PZO	A.T/2020/018/PZO	A.T/2020/019/PZO	A.T/2020/020/PZO	A.T/2020/021/PZO
Location	Stęszew / Poland	Kamień Krajeński / Poland	Łysomice / Poland	Sierpc / Poland	Sępólno Krajeńskie / Poland	Drobin / Poland	Stęszew / Poland	Sierpc / Poland
Plant/cultivar	Winter triticale / Orinoko	Winter triticale / Fredro	Winter triticale / Rotondo	Winter triticale / Panteon	Winter triticale / Porto	Winter triticale / Rotondo	Winter triticale / Orinoko	Winter triticale / Panteon
Seeding date	23.09.2019	16.09.2019	21.09.2019	21.09.2019	15.09.2019	21.09.2019	23.09.2019	21.09.2019
Seeding rate	150 kg/ha	180kg/ha	165 kg/ha	200 kg/ha	140 kg/ha	140 kg/ha	150 kg/ha	200 kg/ha
Forecrop	Winter wheat	oat	Winter wheat	spring barley	winter rye	winter oilseed rape	Winter wheat	spring barley
Type of sprayer	BICCAI	BACCAI	BACCAI	BACCAI	BICCAI	BICCAI	BICCAI	BICCAI
Date of treatment A	17.03.2020	17.03.2020	07.04.2020	08.04.2020	09.04.2020	15.05.2020	08.05.2020	28.05.2020
Date of treatment B	n/a	07.04.2020	05.05.2020	06.05.2020	n/a	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 28-32	BBCH 25-30	BBCH 31-32	BBCH 31-32	BBCH 31-32	BBCH 37-41	BBCH 37-39	BBCH 55-59
Plant development phase B	n/a	BBCH 31-32	BBCH 49-51	BBCH 45-49	n/a	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	loamy sand	loamy sand	sandy loam	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand
pH	7,1	5	5,7	5	5,2	6,2	7,1	5
Water (l/ha) A; B; C	200	200	A:200; B:200	A:200; B:200	300	200	300	300
Plot size	2,5x7=17,5m2	2,5x7,5=18,75m2	2,5x10 = 25m2	2,5x8,5=21,25m2	2,5x8=20m2	2,5x8=20m2	2,5x7=17,5m2	2,5x9=22,5m2

Winter triticale Poland 2020 b

Report code	AF/20/PszO/1/Pr/01	AF/20/PszO/1/Br/02	AF/20/PszO/1/Pr/03	AF/20/PszO/1/Br/04	AF/20/PszO/1/Zl/05	AF/20/PszO/1/Br/06
Location	Przybroda /Poland	Brody / Poland	Przybroda / Poland	Brody / Poland	Złotniki / Poland	Brody / Poland
Plant/cultivar	Winter triticale / Grenado	winter triticale / Twingo	Winter triticale / Grenado	Winter triticale / Twingo	Winter triticale / Aliko	Winter triticale / Twingo
Seeding date	24.09.2019	24.09.2019	24.09.2018	24.09.2018	26.09.2019	24.09.2019
Seeding rate	175 kg/ha	180 kg/ha	220 kg/ha	180 kg/ha	190 kg/ha	180 kg/ha
Forecrop	winter oilseed rape	maize	winter oilseed rape	maize	winter oilseed rape	maize
Type of sprayer	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR
Date of treatment A	18.03.2020	07.04.2020	18.05.2020	16.05.2020	28.05.2020	29.05.2020
Date of treatment B	07.04.2020	n/a	n/a	n/a	n/a	n/a
Date of treatment C	15.04.2020	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 27-29	BBCH 31-33	BBCH 47-49	BBCH 47-49	BBCH 59-61	BBCH 61-65
Plant development phase B	BBCH 29-31	n/a	n/a	n/a	n/a	n/a
Plant development phase C	BBCH 31-33	n/a	n/a	n/a	n/a	n/a
Soil type	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	6	6,7	6	6,7	6,4	6,7
Water (l/ha) A; B; C	200	230	200	230	200	230
Plot size	2x12=24m2	9x2=18m2	24m2	2x9=18 m2	2,5x8=20m2	9x2=18m2

Winter triticale Poland 2020 c

Report code	SRPL2020_404_336_FE	SRPL20-405-336FE	SRPL20-406-336FE
Location	Czeska wieś / Poland	Olszany/Poland	Jankowice Wielkie/ Poland
Plant/cultivar	Winter triticale / Sekret	Winter triticale / Tadeus	Winter triticale / Rotondo
Seeding date	20.09.2019	23.09.2019	30.08.2019
Seeding rate	200 kg/ha	180 kg/ha	150 kg/ha
Forecrop	winter wheat	spring barley	winter oilseed rape
Type of sprayer	BACCAI	BACCAI	BACCAI
Date of treatment A	09.05.2020	10.06.2020	09.06.2020
Date of treatment B	30.05.2020	n/a	n/a
Date of treatment C	n/a	n/a	n/a
Plant development phase A	BBCH 37-41	BBCH 63-67	BBCH 61-69
Plant development phase B	BBCH 57-59	n/a	n/a
Plant development phase C	n/a	n/a	n/a
Soil type	loamy clay	sandy loam	loamy sand
pH	6,7	6,7	6,5
Water (l/ha) A; B; C	300	300	300
Plot size	3x7=21m2	3x8=24 m2	3x8=24 m2

Winter triticale Czech Republic 2020

Report code	SRCZ20-056-301FE	SRCZ20-057-301FE	SRCZ20-058-301FE
Location	Sekerkovy Loučky / Czech Republic	Sekerkovy Loučky/ Czech Republic	Dolní Dubnany / Czech Republic
Plant/cultivar	Winter triticale /Talentro	Winter triticale /Agostino	Winter triticale /Agostino
Seeding date	05.10.2019	05.10.2019	25.09.2019
Seeding rate	200 kg/ha	200 kg/ha	230 kg/ha
Forecrop	YNKKX	YNKKX	winter wheat
Type of sprayer	BACSPR	BACSPR	BACCAI
Date of treatment A	13.05.2020	18.05.2020	20.05.2020
Date of treatment B	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a
Plant development phase A	BBCH 45	BBCH 47-51	BBCH 49-55
Plant development phase B	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a
Soil type	clayey sand	loamy clay	loamy sand
pH	no data	no data	6
Water (l/ha) A; B; C	225	225	300
Plot size	3x7=21 m2	3x7=21 m2	2,5x7=17,5 m2

Winter triticale Germany 2020 a

Report code	SRDE20-107-301FE	SRDE20-108-301FE	SRDE20-109-301FE	CHR-F-PROTAZO-EFF01-DE016	CHR_F_PROTAZO20_EFF3_DE17
Location	Moosham/Germany	Göttingen/Germany	Garching bei München /Germany	Bütthard-Tiefenthal /Germany	Martinsheim/Germany
Plant/cultivar	Winter triticale / SU Agendus	Winter triticale / Tender	Winter triticale / SU Agendus	Winter triticale / Lombardo	Winter triticale / SW Talentro
Seeding date	22.10.2019	07.10.2019	10.10.2019	16.10.2019	27.09.2019
Seeding rate	no data	140 kg/ha	130 kg/ha	150 kg/ha	330 S/m2
Forecrop	winter barley	winter wheat	winter wheat	winter wheat	maize
Type of sprayer	BOSPHO	BACCAI	BOSPHO	BACSPR	SPRBAC
Date of treatment A	22.04.2020	16.05.2020	27.05.2020	08.04.2020	28.04.2020
Date of treatment B	n/a	n/a	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 31-33	BBCH 45-51	BBCH 65-69	BBCH 29	BBCH 39-47
Plant development phase B	n/a	n/a	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a
Soil type	Silty loam	sandy clay loam	sandy loam	loam	sandy loam
pH	6,9	no data	7,6	7,1	6,5
Water (l/ha) A; B; C	300	200	300	300	300
Plot size	2,5x6=15m2	2,5x8=20,0m2	2,5x6=15m2	2,5x9=22,5m2	2,5x8=20 m2

Winter triticale Germany 2020 b

Report code	CHR_F_PROTAZO20_EFF2_DE18	CHR_F_PROTAZO20_EFF2_DE19	CHR_F_PROTAZO20_EFF4_DE20	CHR_F_PROTAZO20_EFF4_DE21	CHR_F_PROTAZO20_EFF5_DE22
Location	Vreden/Germany	Theilheim/Germany	Martinsheim/Germany	Theilheim/Germany	Büttthard-Tiefenthal/Germany
Plant/cultivar	Winter triticale / Barolo	Winter triticale / Lombardo	Winter triticale / SW Talentro	Winter triticale / Lombardo	Winter triticale / Robinson
Seeding date	28.10.2019	14.10.2019	27.09.2019	14.10.2019	16.10.2019
Seeding rate	320 S/m2	380 S/m2	330 S/m2	380 S/m2	150 kg/ha
Forecrop	maize	maize	maize	maize	winter wheat
Type of sprayer	BACSPR	SPRBAC	SPRBAC	SPRBAC	BACSPR
Date of treatment A	06.05.2020	29.04.2020	07.05.2020	05.05.2020	25.05.2020
Date of treatment B	26.05.2020	12.05.2020	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 33-37	BBCH 39	BBCH 47-49	BBCH 49	BBCH 65
Plant development phase B	BBCH 57-61	BBCH 49-53	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a
Soil type	sand	sandy loam	loam	sandy loam	loam
pH	5,7	7,7	no data	7,7	7,1
Water (l/ha) A; B; C	300	300	300	300	300
Plot size	1,5x9,5=14,25m2	2,5x6=15 m2	2,5x8=20 m2	2,5x6=15 m2	2,5x9=22,5 m2

Spring barley Poland 2019

Report code	SRPL19-301-336FE	SRPL19-302-336FE	SRPL19-303-336FE	SRPL19-304-336FE	SRPL19-305-336FE	SRPL19-306-336FE	SRPL19-307-336FE	SRPL19-308-336FE
Location	Murczyn/ Poland	Szamotuły/ Poland	Jablowo Pałuckie/ Poland	Teresin/ Poland	Pokrzywno/ Poland	Jankowice Wielkie/ Poland	Sarbka/Poland	Jankowice Wielkie/ Poland
Plant /cultivar	Spring barley/ Extase	Spring barley/ KWS Atrika	Spring barley/ Kucyk	Spring barley/ Soldo	Spring barley/ Scorpion	Spring barley/ Kucyk	Spring barley/ Antek	Spring barley/ Kucyk
Seeding date	29.03.2019	20.03.2019	02.04.2019	03.04.2019	04.04.2019	02.03.2019	15.03.2019	02.03.2019
Seeding rate	200 kg/ha	180 kg/ha	170 kg/ha	180 kg/ha	150 kg/ha	150 kg/ha	170 kg/ha	150 kg/ha
Forecrop	spring barley	maize	winter wheat	sugar beet	winter triticale	sugar beet	maize	sugar beet
Type of sprayer	BACCAI	BACCAI	BACCAI	BACSPR	BACSPR	BACCAI	BACCAI	BACCAI
Date of treatment A	13.05.2019	22.04.2019	24.05.2019	20.05.2019	10.05.2019	01.05.2019	20.04.2019	01.05.2019
Date of treatment B	03.06.2019	18.05.2019	14.06.2019	03.06.2019	31.05.2019	22.05.2019	18.05.2019	22.05.2019
Plant development phase A	BBCH 31-32	BBCH 31-32	BBCH 31-35	BBCH 33-37	BBCH 32-33	BBCH 32-37	BBCH 31-32	BBCH 32-37
Plant development phase B	BBCH 43-45	BBCH 43-51	BBCH 41-45	BBCH 47-51	BBCH 57-59	BBCH 55-59	BBCH 37-39	BBCH 55-59
Soil type	loamy sand	sandy loam	clay sandy loam	sandy clay loam	loam	loamy clay	sandy loam	loamy clay
pH	6,4	5,7	8,3	6,68	6,3	6,8	5,8	6,8
Water (l/ha) (application A and B)	300	200	200	300	200	300	200	300
Plot size	3x7=21m2	3x8=24m2	3x7=21m2	3x7=21m2	3x8=24m2	3x6=18m2	3x8=24m2	3x6=18m2

Spring barley Czech Republic 2019

Report code	CZOR-SYT19-HORVS-069NEC	CZOR-SYT19-HORVS-041RY	CZOR-SYT19-HORVS-070NEC	CZOR-SYT19-HORVS-042RYM	CZOR-SYT19-HORVS-043RYM
Location	Nechanice/ Czech Republic	Rymarov/ Czech Republic	Nechanice/ Czech Republic	Rymarov/ Czech Republic	Rymarov/ Czech Republic
Plant /cultivar	Spring barley/ Malz	Spring barley/ Francin	Spring barley/ Sebastian	Spring barley/ Francin	Spring barley/ Francin
Seeding date	28.03.2019	16.04.2019	04.04.2019	16.04.2019	16.04.2019
Seeding rate	215 kg/ha	220 kg/ha	220 kg/ha	220 kg/ha	220 kg/ha
Forecrop	sugar beet	lupine white	maize	lupine white	lupine white
Type of sprayer	BICCAI	SPRAYE	BICCAI	SPRAYE	SPRAYE
Date of treatment A	31.05.2019	13.06.2019	31.05.2019	13.06.2019	13.06.2019
Date of treatment B	21.06.2019	04.07.2019	21.06.2019	04.07.2019	04.07.2019
Plant development phase A	BBCH 37-39	BBCH 37	BBCH 37-39	BBCH 37	BBCH 37
Plant development phase B	BBCH 59-63	BBCH 45-47	BBCH 59-63	BBCH 45-47	BBCH 45-47
Soil type	clay loam	sandy loam	sandy clay loam	sandy loam	sandy loam
pH	6,5	6,4	6,4	6,4	6,4
Water (l/ha) (application A and B)	200	200	200	200	200
Plot size	2,7x9=24,3m2	1,375x14,54=19,992m2	2,7x9=24,3m2	1,375x14,54=19,992m2	1,375x14,54=19,992m2

Spring barley Poland 2020 a

Report code	AF/20/JJ/1/ZI/01	AF/20/JJ/1/ZI/02	AF/20/JJ/1/Br/03	AF/20/JJ/1/Pr/04	AF/20/JJ/1/Br/05	AF/20/JJ/1/Pr/06	AF/20/JJ/1/Br/07
Location	Złotniki/ Poland	Złotniki/ Poland	Brody/ Poland	Przybroda/ Poland	Brody/ Poland	Przybroda/ Poland	Brody/ Poland
Plant /cultivar	Spring barley/ Stratus	Spring barley/ Stratus	Spring barley/ Iron	Spring barley/ Penguin	Spring barley/ Iron	Spring barley/ Penguin	Spring barley/ Iron
Seeding date	26.03.2020	26.03.2020	24.03.2020	18.03.2020	24.03.2020	18.03.2020	24.03.2020
Seeding rate	147 kg/ha	147 kg/ha	160 kg/ha	175 kg/ha	160 kg/ha	175 kg/ha	160 kg/ha
Forecrop	maize	maize	maize	sugar beet	maize	sugar beet	maize
Type of sprayer	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR
Date of treatment A	20.05.2020	20.05.2020	29.05.2020	26.05.2020	29.05.2020	09.06.2020	09.06.2020
Date of treatment B	10.06.2020	10.06.2020	19.06.2020	16.06.2020	19.06.2020	n/a	n/a
Plant development phase A	BBCH 32-34	BBCH 32-34	BBCH 35-37	BBCH 31-33	BBCH 35-37	BBCH 49-52	BBCH 49-55
Plant development phase B	BBCH 52-54	BBCH 52-54	BBCH 53-57	BBCH 58-61	BBCH 53-57	n/a	n/a
Soil type	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	6,4	6,4	6,8	6	6,8	6	6,8
Water (l/ha) (application A and B)	200	200	200	200	230	200	230
Plot size	2,5x8=20m2	2,5x8=20m2	2x9=18m2	2x12=24m2	2x9=18m2	2x12=24m2	2x9=18m2

Spring barley Poland 2020 b

Report code	A.T/2020/86/JJ	A.T/2020/87/JJ	A.T/2020/88/JJ	A.T/2020/89/JJ	A.T/2020/090/JJ	A.T/2020/091/JJ	A.T/2020/092/JJ	A.T/2020/093/JJ
Location	Modrze/ Poland	Czachowo/ Poland	Białe Błoto/ Poland	Nowy Dwór/ Poland	Stęszew / Poland	Wilkowo/Poland	Maniewo/ Poland	Nowy Dwór/ Poland
Plant /cultivar	Spring barley/ RGT Planet	Spring barley/ KWS Irina	Spring barley/ Propino	Spring barley/ Quench	spring barley / RGT Planet	spring barley /Laureate	Spring barley/ Ellinor	Spring barley/ Quench
Seeding date	28.03.2020	26.03.2020	28.03.2020	03.04.2020	28.03.2020	20.03.2020	09.03.2020	03.04.2020
Seeding rate	107 kg/ha	110 kg/ha	200 kg/ha	175 kg/ha	107 kg/ha	150 kg/ha	150 kg/ha	175 kg/ha
Forecrop	sugar beet	maize	winter triticale	potatoes	sugar beet	winter rape	winter wheat	potatoes
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment A	08.05.2020	22.05.2020	20.05.2020	15.05.2020	18.05.2020	15.05.2020	04.06.2020	24.06.2020
Date of treatment B	03.06.2020	12.06.2020	09.06.2020	03.06.2020	08.06.2020	03.06.2020	n/a	n/a
Plant development phase A	BBCH 28-30	BBCH 30-32	BBCH 28-31	BBCH 30-31	BBCH 31-33	BBCH 30-31	BBCH 49-51	BBCH 49-51
Plant development phase B	BBCH 39-45	BBCH 49-53	BBCH 49-55	BBCH 49-51	BBCH 51-57	BBCH 49-51	n/a	n/a
Soil type	loamy sand	sandy loam	loamy sand	sandy loam	loamy sand	sandy loam	loamy sand	sandy loam
pH	6,5	6,6	4,7	5,6	6,5	5,3	6,4	5,6
Water (l/ha) (application A and B)	200	200	200	300	200	200	300	200
Plot size	2,5x7=17,5m2	2,5x8=20m2	2,5x8=20m2	2,5x7,5=18,75m2	2,5x7=17,5m2	2,5x8=20m2	2,5x7=17,5m2	2,5x7,5=18,75m2

Spring barley Czech Republic 2020

Report code	SRCZ20-066-301FE	SRCZ20-067-301FE	SRCZ20-064-301FE	CZOR-CPP20-HORVS-075SYT
Location	Dobronice/ Czech Republic	Dobřínko/ Czech Republic	Křepice/ Czech Republic	Dobřínko/ Czech Republic
Plant /cultivar	Spring barley/ Laudis	Spring barley/ KWS Amadora	Spring barley/ Solist	Spring barley/ KWS Amadora
Seeding date	25.03.2020	28.03.2020	18.03.2020	28.03.2020
Seeding rate	180 kg/ha	200 kg/ha	220 kg/ha	200 kg/ha
Forecrop	maize	potatoes	white mustard	maize
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment A	27.05.2020	27.05.2020	21.05.2020	22.05.2020
Date of treatment B	09.06.2020	15.06.2020	04.06.2020	04.06.2020
Plant development phase A	BBCH 37-49	BBCH 39-49	BBCH 34-39	BBCH 37-45
Plant development phase B	BBCH 56-61	BBCH 65-69	BBCH 55-59	BBCH 49-55
Soil type	loam	loam	loam	loam
pH	6,2	6,5	6,2	6,5
Water (l/ha) (application A and B)	300	300	300	300
Plot size	3x5=15m2	2,5x6=15m2	2,5x6=15m2	2,5x6=15m2

Spring barley Germany 2020

Report code	CHR_F_PROTAZO20_EFF8_DE27	CHR_F_PROTAZO20_EFF8_DE28	CHR_F_PROTAZO20_EFF8_DE29	CHR_F_PROTAZO20_EFF8_DE30	SRDE20-151-301FE
Location	Lüdersdorf/ Germany	Niederbösa/ Germany	Wittighausen-Poppenhausen/ Germany	Schonungen/ Germany	Neudenu-Kressbach/ Germany
Plant /cultivar	Spring barley/ Planet	Spring barley/ Leandra	Spring barley/ Avalon	Spring barley/ Avalon	Spring barley/ Avalon
Seeding date	29.03.2020	17.03.2020	20.03.2020	30.03.2020	20.04.2020
Seeding rate	no data	330 s/m2	145 kg/ha	165 kg/ha	160 kg/ha
Forecrop	maize	no data	winter wheat	winter wheat	winter barley
Type of sprayer	BACCAI	BACCAI	BACSPR	BACCAI	SPRAYE
Date of treatment A	29.05.2020	27.05.2020	02.06.2020	22.05.2020	15.05.2020
Date of treatment B	15.06.2020	09.06.2020	n/a	n/a	18.06.2020
Plant development phase A	BBCH 36-37	BBCH 31-34	BBCH 53	BBCH 30-31	BBCH 29-37
Plant development phase B	BBCH 58-61	BBCH 49-51	n/a	n/a	BBCH 49-55
Soil type	sandy loam	clay loam	loam	silt loam	silty clay
pH	6,5	no data	7,1	7,1	7,1
Water (l/ha) (application A and B)	300	300	300	300	300
Plot size	2,5x9=22,5m2	2,5x7=17,5 m2	2,5x9=22,5m2	2,5x8,25=20,625m2	3x8=24m2

Spring barley Poland 2021

Report code II	A.T/2021/102/JJ	AF/21/JJ/19/Zł/1	AF/21/JJ/19/Br/2	AF/21/JJ/19/Ra/3
Location	Stęszew/ Poland	Złotniki / Poland	Brody/ Poland	Rataje/ Poland
Plant /cultivar	Spring barley/ KWS Vermont	Spring barley/ Kucyk	Spring barley/ Iron	Spring barley/ Orphelia
Seeding date	01.04.2021	17.03.2021	26.03.2021	19.04.2021
Seeding rate	150 kg/ha	175 kg/ha	175 kg/ha	160 kg/ha
Forecrop	sugar beet	sugar beet	maize	winter triticale
Type of sprayer	BACCAI	BICSPR	BICSPR	BICSPR
Date of treatment A	16.06.2021	18.06.2021	14.06.2021	25.06.2021
Date of treatment B	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 49-51	BBCH 49-51	BBCH 49-52	BBCH 47-51
Plant development phase B	n/a	n/a	n/a	n/a
Soil type	loamy sand	loamy sand	loamy sand	loamy sand
pH	6,3	7	5,8	6
Water (l/ha) (application A and B)	200	250	230	250
Plot size	2,5x7,0=17,5m2	1,5x12,0=18,0 m2	2x9,0=18,0m2	1,5x12,0=18,0 m2

Winter oilseed rape Poland 2019

Report code	A.T/2019/035/RZO	A.T/2019/036/RZO	A.T/2019/037/RZO	A.T/2019/038/RZO
Location	Dębiniec / Poland	Lipka / Poland	Lipka / Poland	Czarłomiec / Poland
Plant /cultivar	winter oilseed rape / Kuga	winter oilseed rape / Hamilton	winter oilseed rape / Hamilton	winter oilseed rape / Hamilton
Seeding date	27.08.2018	22.08.2018	22.08.2018	09.09.2018
Seeding rate	2,6 kg/ha	2 kg/ha	2,0 kg/ha	2,8 kg/ha
Forecrop	winter wheat	winter wheat	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment	30.04.2019	13.05.2019	25.04.2019	01.05.2019
Plant development phase	BBCH 65-67	BBCH 65-67	BBCH 60-61	BBCH 64-65
Soil type	sandy loam	loamy sand	loamy sand	loamy sand
pH	6,2	5,5	5,5	5,3
Water (l/ha)	200	200	200	200
Plot size	2,5x10=25m2	2,5x10=25m2	2,5x10=25m2	3x7,5=22m2

Winter oilseed rape Czech Republic 2019

Report code	SRCZ19-028-301FE	CZOR-SYT19-BRSNN-088KUJ
Location	Lustenice /Czech Republic	Kujavy /Czech Republic
Plant /cultivar	winter oilseed rape /Alicante	winter oilseed rape /DK Exstorm
Seeding date	22.08.2018	29.08.2018
Seeding rate	1,1 kg/ha	2,77 kg/ha
Forecrop	winter barley	winter wheat
Type of sprayer	BACSPR	BICSPR
Date of treatment	14.05.2019	07.05.2019
Plant development phase	BBCH 65-67	BBCH 65
Soil type	sandy loam	loam
pH	6,8	5,9
Water (l/ha)	225	200
Plot size	3x7=21m2	3,5x9,15=32,025m2

Winter oilseed rape Poland 2020

Report code	A.T/2020/022/RZO	A.T/2020/023/RZO	A.T/2020/024/RZO	AF/20/RO/1/Pr/01	AF/20/RO/1/Pr/02	AF/20/RO/1/ZL/03
Location	Gaj Wielki / Poland	Lysomice/ Poland	Gaj Wielki / Poland	Przybroda / Poland	Przybroda / Poland	Złotniki / Poland
Plant /cultivar	winter oilseed rape / Dominator	winter oilseed rape / Bonanza	winter oilseed rape / Dominator	Winter oilseed rape / Harry	Winter oilseed rape / Harry	winter oilseed rape
Seeding date	22.08.2019	20.08.2019	22.08.2019	22.08.2019	22.08.2019	23.08.2019
Seeding rate	2,5 kg/ha	2,7 kg/ha	2,5 kg/ha	3,1 kg/ha	3,1 kg/ha	3,24 kg/ha
Forecrop	winter oilseed rape	winter wheat	winter oilseed rape	spring barley	spring barley	pea
Type of sprayer	BACCAI	BACCAI	BACCAI	BICSPR	BICSPR	BICSPR
Date of treatment	21.04.2020	30.04.2020	03.05.2020	27.04.2020	08.05.2020	08.05.2020
Plant development phase	BBCH 57-62	BBCH 63-65	BBCH 65-67	BBCH 59-65	BBCH 65-69	BBCH 65-69
Soil type	sandy loam	loamy sand	sandy loam	loamy sand	loamy sand	loamy sand
pH	5,8	5,8	5,8	6,1	6,1	6,5
Water (l/ha)	300	200	300	200	200	200
Plot size	2,5x8=20m2	2,5x10=25m2	2,5x8=20m2	1,5x12=18m2	1,5x12=18m2	2,5x10=25m2

Winter oilseed rape Czech Republic 2020

Report code	SRCZ20-059-301FE	SRCZ20-060-301FE	SRCZ20-061-301FE
Location	Hořkovice /Czech Republic	Luštěnice /Czech Republic	Mikulovice /Czech Republic
Plant /cultivar	winter oilseed rape / LG Architect	winter oilseed rape / DK Expansion	winter oilseed rape / Arabela
Seeding date	30.08.2019	16.08.2019	15.08.2019
Seeding rate	50 S/m ²	400 KS/ha	6 kg/ha
Forecrop	winter barley	winter wheat	winter wheat
Type of sprayer	BACSPR	BACSPR	BACCAI
Date of treatment	28.04.2020	29.04.2020	08.05.2020
Plant development phase	BBCH 61-65	BBCH 61-65	BBCH 65-67
Soil type	loam	no data	loam
pH	6,9	no data	6,2
Water (l/ha)	200	220	250
Plot size	3x7=21m ²	3x7=21m ²	2,5x9=22,5m ²

Winter oilseed rape Germany 2020

Report code	SRDE20-110-301FE	SRDE20-111-301FE	SRDE20-112-301FE	SRDE20-113-301FE	CHR_F_PROTAZO20_EFF06_DE23	CHR_F_PROTAZO20_EFF07_DE24
Location	Langenbrettach /Germany	Roigheim /Germany	Langenbrettach /Germany	Roigheim /Germany	Grieben /Germany	Siemitz /Germany
Plant /cultivar	winter oilseed rape / Archipel	winter oilseed rape / Archipel	winter oilseed rape / ES Vito	winter oilseed rape / Archipel	winter oilseed rape / Alvaro	winter oilseed rape / Horace
Seeding date	29.08.2019	28.08.2019	29.08.2019	28.08.2019	03.09.2019	23.08.2019
Seeding rate	2,6 kg/ha	2,5 kg/ha	2,6 kg/ha	2,5 kg/ha	45 S/m2	50 S/m2
Forecrop	winter oilseed rape	winter barley	winter barley	winter barley	winter barley	winter barley
Type of sprayer	BACCAI	SPRAYE	SPRAYE	SPRAYE	BACCAI	BACSPR
Date of treatment	08.05.2020	07.05.2020	12.05.2020	12.05.2020	24.04.2020	11.05.2020
Plant development phase	BBCH 61-65	BBCH 61-65	BBCH 65-69	BBCH 65-69	BBCH 61-65	BBCH 63-67
Soil type	silty clay	silty clay	silty clay	silty clay	loamy sand	sandy loam
pH	7,3	6,7	7,5	6,7	6,4	6,3
Water (l/ha)	300	300	300	300	300	300
Plot size	3x8=24m2	3x8=24m2	3x8=24m2	3x8=24m2	2,5x10=25 m2	3x10=30 m2

Details of agricultural measures, fertilization, and other plant protection products applied during the experiments are included in detailed field study reports listed above.

Summary of the data from effectiveness trials can be found at Appendix 5

Table 3.2-10: Details on trial methodology

Guidelines	General guidelines	PP 1/152 (4) Design and analysis of efficacy evaluation trials
		PP 1/181 (4) Conduct and reporting of efficacy evaluation trials including good experimental practice
		PP 1/135 (4) Phytotoxicity assessment
		PP 1/225(2) Minimum effective dose
	Specific guidelines	PP 1/26(4) Foliar and ear diseases on cereals
		PP 1/28(3) Eyespot of cereals
		PP 1/78 (3) Root, stem, foliar and pod diseases on oilseed rape
Experimental design	Plot design	Randomized Complete Block (RCB) – (141)
	Plot size	Winter wheat: 15.0-25.8 m ² Winter triticale: 14.25-25 m ² Spring barley: 15-24.3 m ² Winter oilseed rape: 18-32.025 m ²
	Number of replications	4 (144)
Crop	Trials per crop	Winter wheat: 43 Winter triticale: 36 Spring barley: 41 Winter oilseed rape: 21
	Varieties per crop	Winter wheat: Arkadia, Hondia, Tonacja, Jantarka, Sailor, Linus, Delawar, Patras, Avenue, Pannonia, Amandus, Gordian, Butterfly, Bogatka, Gallus, Energo, Hybery, Tobak, RGT Reform, Barranco, Elixe, Bergamo Winter triticale: Borowik, Grenado, Maloman, Aveo, Modus, Cedrico, Cappricia, Triamant, Orinoko, Fredro, Rotondo, Panteon, Porto, Twingo, Aliko, Talentro, Agostino, SU Agendus, Tender, Lombardo, SW Talentro, Barolo, Robinson Spring barley: Extase, KWS Atrika, Kucyk, Soldo, Scorpion, Antek, Malz, Francin, Sebastian, Stratus, Iron, Penguin, RGT Planet, KWS Irina, Propino, Quench, Laureate, Ellinor, Laudis, KWS Amadora, Solist, Avalon, Planet, Leandra, KWS Vermont, Orphelia Winter oilseed rape: Kuga, Hamilton, Alicante, DK Exstorm, Dominator, Bonanza, Dominator, Harry, LG Architect, DK Expansion, Arabela, Archipel, ES Vito, Alvaro, Horace
	Sowing period	Winter wheat: 15.09.2018-12.11.2018, 20.09.2019-28.09.2019, 14.10.2019-08.11.2019 Winter triticale: 15.09.2018-17.10.2018, 15.09.2019-16.10.2019 Spring barley: 02.03.2019-16.04.2019, 09.03.2020-20.04.2020, 17.03.2021-19.04.2021 Winter oilseed rape: 22.08.2018-09.09.2018, 15.08.2019-03.09.2019
Application	Crop stage (BBCH)* at application	Winter wheat: A: BBCH 24-71; B: BBCH 29-59 Winter triticale: A: BBCH 25-69; B: BBCH 29-61 Spring barley: A:BBCH 28-55; B:BBCH 39-69 Winter oilseed rape: BBCH 57-69

	Timing Pest stage at application (1)	The data available in Appendix 4
	Number of applications Intervals between applications	winter wheat: 1 (36 trials) interval – n/a, 2 (7 trials) interval 14-26 days winter triticales: 1 (27 trials) interval – n/a , 2 (9 trials) interval 13-28 days spring barley: 1 (10 trials) interval – n/a , 2 (31 trials) interval 13-34 days winter oilseed rape: 1 (21), interval – n/a
	Spray volumes	Winter wheat: 200 - 300 l/ha Winter triticales: 200 - 300 l/ha Spring barley 200-300 l/ha Winter oilseed rape 200-300 l/ha
Assessment	Assessment types	Assessment of efficacy Assessment of phytotoxicity
	Assessment dates	Assessment dates deatalis is available in Appendix 4
Other relevant information	e.g. Soil type, pH (in case of soil active substance ...)	Winter wheat pH: 4,8-6,9 Winter triticales pH: 4,9-6,9 Spring barley: pH: 4,7-8,3 Winter oilseed rape: pH: 5,3-7,5
	e.g. Natural / artificial inoculation...	n/a
	e.g. Field / Greenhouse...	n/a
	...	n/a

* BBCH for weeds, pre-emergence, preventive / curative application, insect stage...

Crop(s) 1 AND/OR Target(s) 1

The 144 trials in total (winter wheat 43 trials, winter triticales 39 trials, spring barley 41 trials, winter oilseed rape 21 trials) were carried out in winter wheat, winter triticales, spring barley and winter oilseed rape in 2019, 2020 and 2021 in Poland, Czech Republic and Germany.

In five reports (spring barley report no.: CHR_F_PROTAZO20_EFF8_DE28; winter triticales reports no.: CHR_F_PROTAZO20_EFF3_DE17, CHR_F_PROTAZO20_EFF4_DE20; winter oilseed rape reports no.: CHR_F_PROTAZO20_EFF06_DE23, CHR_F_PROTAZO20_EFF07_DE24), the degree of infestation was too low, therefore data were not provided. Only yield and quality data were taken into account.

Efficacy data for diseases are presented from 139 efficacy trials assessed. 139 trials have been conducted in season 2019, 2020 and 2021 in Poland, Czech Republic and Germany.

3.2.3-1 Efficacy tests of CHR/F/PROTAZO

Winter wheat

The ~~one trial~~ 43 trials were carried out in winter wheat in 2019, 2020. The fungicide CHR/F/PROTAZO was applied once or twice per season at the following rates of 0.8, 0.9, 1.0 L/ha. The treatments were conducted once per season at the growth stage from 8 tillers detectable to end of flowering: all spikelets have completed flowering but some dehydrated anthers may remain BBCH 28-69. The treatments were conducted twice per season at the growth stage from first node at least 1 cm above tillering node to early boot stage: flag leaf sheath extending BBCH 31-41, to at the growth stage from first awns visible (in awned forms only) to end of heading: inflorescence fully emerged BBCH 49-59.

Winter triticale

The ~~one trial~~ 37 trials were carried out in winter triticale in 2019, 2020. The fungicide CHR/F/PROTAZO was applied once or twice per season at the following rates of 0.8, 0.9, 1.0 L/ha. The treatments were conducted once per season at the growth stage from 8 tillers detectable to end of flowering: all spikelets have completed flowering but some dehydrated anthers may remain BBCH 28-69. The treatments were conducted twice per season at the growth stage from 5 tillers detectable to early boot stage: flag leaf sheath extending BBCH 25-41, to at the growth stage from first node at least 1 cm above tillering node to beginning of flowering: first anthers visible BBCH 31-61.

Spring barley

The ~~40~~ trials were carried out in spring barley in 2019, 2020 and 2021. The fungicide CHR/F/PROTAZO was applied once or twice per season at the following rates of 0.8, 0.9, 1.0 L/ha. The treatments were conducted once per season at the growth stage from flag leaf sheath opening to middle of heading: half of inflorescence emerged BBCH 47-55. The treatments were conducted twice per season at the growth stage from 8 tillers detectable to end of flowering: all spikelets have completed flowering but some dehydrated anthers may remain BBCH 28-69.

Winter oilseed rape

The ~~five~~ 19 trials were carried out in winter oilseed rape in 2019 and 2020. The fungicide CHR/F/PROTAZO was applied once per season at the following rates of 0.8, 0.9, 1.0 L/ha. The treatments were conducted at the growth stage from individual flower buds (secondary inflorescences) visible but still closed to end of flowering BBCH 57-69.

Winter wheat

3.2.3-1.1 The efficacy of CHR/F/PROTAZO in control of PSDCHE *Oculimacula yallundae*

The efficiency of CHR/F/PROTAZO in control of PSDCHE were investigated in 8 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 35,72 % (62 DA-A) to 79,6 % (87 DA-A), at rate 0.9 L/ha from 48,05 % (62 DA-A) to 85,42 % (63 DA-A), at rate 1.0 L/ha from 57,03 % (63 DA-A) to 86,94% (28 DA-A). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 80 % during the assessment. (Appendix 5 tab. 1).

3.2.3-1.2 The efficacy of CHR/F/PROTAZO in control of FUSASP *Fusarium spp.*

The efficiency of CHR/F/PROTAZO in control of FUSASP were investigated in 11 trial. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of

efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 29,9 % (87 DA-A) to 71,43% (75 DA-A), at rate 0.9 L/ha from 42,1 % (87 DA-A) to 76,12 % (60 DA-A), at rate 1.0 L/ha from 63,6 % (87 DA-A) to 87,51 % (58 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 80 % during the assessment. (Appendix 5 tab. 2).

3.2.3-1.3 The efficacy of CHR/F/PROTAZO in control of ERYSGR *Blumeria graminis*

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 9 trials.

one application

Leaf

The efficiency of CHR/F/PROTAZO in control of ERYSGR was investigated in 9 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 43,64% (20 DA-A) to 82,78 % (14 DA-A), at rate 0.9 L/ha from 48,61% (20 DA-A) to 87,3 % (21 DA-A), at rate 1.0 L/ha from 60,6 % (31 DA-A) to 90,85 % (14 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 79 % during the assessment. (Appendix 5 tab. 3).

Plant

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 2 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 55,7% (21 DA-A) to 65,3% (28 DA-A), at rate 0.9 L/ha from 62,4% (31 DA-A) to 81,9 % (28 DA-A), at rate 1.0 L/ha from 65,3% (31 DA-A) to 91,7 % (28 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted up to 100 % during the assessment. (Appendix 5 tab. 4).

two application

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 6 trials.

Leaf

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 6 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 29,83 % (35 DA-B) to 80,5 % (21 DA-B), at rate 0.9 L/ha from 50,3 % (21 DA-B) to 87,8 % (21 DA-B), at rate 1.0 L/ha from 58,3 % (21 DA-B) to 100% (14 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 81 % during the assessment. (Appendix 5 tab. 5).

Plant

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 4 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 47,2 % (21 DA-B) to 84,0 % (21 DA-A), at rate 0.9 L/ha from 55,9 % (21 DA-B) to 92,0 % (21 DA-A), at rate 1.0 L/ha from 62,9 % (21 DA-B) to 92,4 % (21 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 78 % during the assessment. (Appendix 5 tab. 6).

3.2.3-1.4 The efficacy of CHR/F/PROTAZO in control of PYRNTR *Pyrenophora tritici repentis*

The efficiency of CHR/F/PROTAZO in control of PYRNTR were investigated in 9 trials.

Leaf

The efficiency of CHR/F/PROTAZO in control of PYRNTR were investigated in 9 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 34,17 % (15 DA-A) to 100 % (14 DA-A), at rate 0.9 L/ha from 56,35 % (15 DA-A) to 100 % (14 DA-A), at rate 1.0 L/ha from 75,47 % (15 DA-A) to 100% (14 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 87 % during the assessment. (Appendix 5 tab. 7).

Plant

The efficiency of CHR/F/PROTAZO in control of PYRNTR were investigated in 2 trials.
The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 65,6 % (14 DA-A) to 74,6% (28 DA-A), at rate 0.9 L/ha from 76,6 % (14 DA-A) to 81,7 % (28 DA-A), at rate 1.0 L/ha from 86,7 % (14 DA-A) to 96,1 % (28 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 90 % during the assessment. (Appendix 5 tab. 8).

3.2.3-1.5 The efficacy of CHR/F/PROTAZO in control of PUCCRE *Puccinia recondite*

The efficiency of CHR/F/PROTAZO in control of PUCCRE were investigated in 6 trials.
Winter wheat - leaves
The efficiency of CHR/F/PROTAZO in control of PUCCRE were investigated in 6 trials.
The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 36,99 % (34 DA-A) to 87,0 % (17 DA-A), at rate 0.9 L/ha from 59,24 % (14 DA-A) to 100 % (28 DA-A), at rate 1.0 L/ha from 81,96 % (14 DA-A) to 100% (28 DA-A). The efficacy of the tested fungicide was higher than the standard standard product. In the trial efficacy amounted up to 87 % during the assessment. (Appendix 5 tab. 9).

Winter wheat – plant

The efficiency of CHR/F/PROTAZO in control of PUCCRE was investigated in 1 trial.
The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha up to 78,6% (28 DA-A), at rate 0.9 L/ha up to 100 % (28 DA-A), at rate 1.0 L/ha up to 100% (28 DA-A). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted up to 100 % during the assessment. (Appendix 5 tab. 10).

3.2.3-1.6 The efficacy of CHR/F/PROTAZO in control of PUCCSI *Puccinia striiformis*

Winter wheat - leaves
The efficiency of CHR/F/PROTAZO in control of PUCCSI were investigated in 3 trials.
The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 53,52 % (75 DA-A) to 87,12% (28 DA-A), at rate 0.9 L/ha from 63,64 % (75 DA-A) to 92,56 % (75 DA-A), at rate 1.0 L/ha from 84,17 % (75 DA-A) to 100% (75 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 89 % during the assessment. (Appendix 5 tab. 11).

3.2.3-1.7 The efficacy of CHR/F/PROTAZO in control of SEPTTR *Mycosphaerella graminicola*

One application

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 7 trials

Winter wheat - leaves

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 7 trials.
The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 39,2 % (31 DA-A) to 78,6% (32 DA-A), at rate 0.9 L/ha from 48,0 % (31 DA-A) to 100 % (32 DA-A), at rate 1.0 L/ha from 46,54 % (21 DA-A) to 100% (32 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 79 % during the assessment. (Appendix 5 tab. 12).

Winter wheat - plant

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 3 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 46,0 % (31 DA-A) to 74,7 % (14 DA-A), at rate 0.9 L/ha from 56,9 % (31 DA-A) to 85,3 % (14 DA-A), at rate 1.0 L/ha from 57,5 % (31 DA-A) to 93,3 % (14 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy above 77 % during the assessment. (Appendix 5 tab. 13).

Two application

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 8 trials

Winter wheat – leaves

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 8 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 33,7 % (21 DA-B) to 87,17 % (20 DA-A), at rate 0.9 L/ha from 42,0 % (21 DA-B) to 93,82 % (20 DA-A), at rate 1.0 L/ha from 50,2 % (21 DA-B) to 100% (20 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 79 % during the assessment. (Appendix 5 tab. 14).

Winter wheat - plant

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 3 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 42,3 % (21 DA-B) to 72,2 % (21 DA-A), at rate 0.9 L/ha from 50,4 % (21 DA-B) to 81,0 % (21 DA-A), at rate 1.0 L/ha from 59,8 % (21 DA-B) to 83,8 % (28 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 67 % during the assessment. (Appendix 5 tab. 15).

3.2.3-1.8 The efficacy of CHR/F/PROTAZO in control of FUSACU *Fusarium culmorum*

The efficiency of CHR/F/PROTAZO in control of FUSACU were investigated in 11 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 36,75 (45 DA-B) to 90,6 % (24 DA-A), at rate 0.9 L/ha from 43,1 % (36 DA-A) to 100 % (24 DA-A), at rate 1.0 L/ha from 58,41 % (28 DA-A) to 100% (21, 24 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 85 % during the assessment. (Appendix 5 tab. 16).

3.2.3-1.9 The efficacy of CHR/F/PROTAZO in control of LEPTNO *Septoria nodorum*/*Phaeosphaeria nodorum*

The efficiency of CHR/F/PROTAZO in control of LEPTNO were investigated in 8 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 35,3 % (17 DA-A) to 86,32 % (44 DA-B), at rate 0.9 L/ha from 68,0 % (17 DA-A) to 91,22 % (44 DA-B), at rate 1.0 L/ha from 86,2 % (21 DA-A) to 94,23 % (44 DA-B). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted above 88 % during the assessment. (Appendix 5 tab. 17).

3.2.3-1.10 The efficacy of CHR/F/PROTAZO in control of RHIZCE *Rhizoctonia cerealis*

Two application

The efficiency of CHR/F/PROTAZO in control of RHIZCE were investigated in 3 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 38,7 % (78 DA-B) to 73,7 % (84 DA-B), at rate 0.9 L/ha from 60,4 % (78 DA-B) to 81,6 % (84 DA-B), at rate 1.0 L/ha from 80,3 % (84 DA-B) to 83,0 % (78 DA-B). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 81 % during the assessment. (Appendix 5 tab. 18).

Winter triticale

3.2.3-1.11 The efficacy of CHR/F/PROTAZO in control of FUSASP *Fusarium spp.*

The efficiency of CHR/F/PROTAZO in control of FUSASP were investigated in 6 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha 42,1 % from (97 DA-A) to 69,9 % (115 DA-A), at rate 0.9 L/ha from 42,1 % (97 DA-A) to 72,76 % (61 DA-A), at rate 1.0 L/ha from 55,3 % (97 DA-A) to 84,27 % (61 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 71 % during the assessment. (Appendix 5 tab. 19).

3.2.3-1.12 The efficacy of CHR/F/PROTAZO in control of ERYSGR *Blumeria graminis*

one application

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 8 trials.

Leaf

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 8 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 41,18 % (76 DA-A) to 96,94 % (37 DA-A), at rate 0.9 L/ha from 46,66 % (76 DA-A) to 97,57 % (35 DA-A), at rate 1.0 L/ha from 51,84 % (76 DA-A) to 100% (35 DA-A). The efficacy of the tested fungicide was higher than the comparable to the standard product. In the trial efficacy amounted above 83 % during the assessment. (Appendix 5 tab. 20).

Plant

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 3 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 63,1 % (35 DA-A) to 86,1 % (41 DA-A), at rate 0.9 L/ha from 74,1 % (35 DA-A) to 92,7 % (41 DA-A), at rate 1.0 L/ha from 77,0 % (35 DA-A) to 94,9 % (41 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 85 % during the assessment. (Appendix 5 tab. 21).

two application

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 6 trials.

Leaf

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 6 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 48,89 % (20 DA-A) to 100,0 % (20 DA-A), at rate 0.9 L/ha from 58,3 % (21 DA-A) to 100 % (20 DA-A), at rate 1.0 L/ha from 63,0 % (20 DA-A) to 100% (20 DA-A). The efficacy of the tested fungicide was comparable to the standard product Delaro, Proline and was higher than the standard product Makler, Trorerero, Amistar. In the trial efficacy amounted above 86,0 % during the assessment. (Appendix 5 tab. 22).

Plant

The efficiency of CHR/F/PROTAZO in control of ERYSGR was investigated in 3 trial. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 64,5 % (21 DA-A) to 90,9% (21 DA-B), at rate 0.9 L/ha from 71,3 % (21 DA-A) to 96,2 % (21 DA-B), at rate 1.0 L/ha from 77,9 % (21DA-A) to 100% (15 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 93 % during the assessment. (Appendix 5 tab. 23).

3.2.3-1.13 The efficacy of CHR/F/PROTAZO in control of PYRNTR *Pyrenophora tritici repentis*

The efficiency of CHR/F/PROTAZO in control of PYRNTR were investigated in 6 trials.

Leaf

The efficiency of CHR/F/PROTAZO in control of PYRNTR were investigated in 6 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 50,0 % (42 DA-A) to 98,33 % (28 DA-A), at rate 0.9 L/ha from 60,0 % (42 DA-A) to 98,83 % (28 DA-A), at rate 1.0 L/ha from 77,6 % (42 DA-A) to 99,21 % (28 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy above 91 % during the assessment. (Appendix 5 tab. 24).

Plant

The efficiency of CHR/F/PROTAZO in control of PYRNTR were investigated in 3 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 54,7 % (42 DA-A) to 73,6 % (39 DA-A), at rate 0.9 L/ha from 70,0 % (42 DA-A) to 88,0 % (20 DA-A), at rate 1.0 L/ha from 81,5 % (42 DA-A) to 92,5 % (20 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 87,0 % during the assessment. (Appendix 5 tab. 25).

3.2.3-1.14 The efficacy of CHR/F/PROTAZO in control of PUCCRE *Puccinia recondite*

The efficiency of CHR/F/PROTAZO in control of PUCCRE were investigated in 8 trials.

Winter triticales – leaves

The efficiency of CHR/F/PROTAZO in control of PUCCRE were investigated in 8 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 60,3 % (14 DA-A) to 98,96 % (28 DA-A), at rate 0.9 L/ha from 70,09 % (38 DA-A) to 100 % (28, 35, 58 DA-A, 51 DA-B), at rate 1.0 L/ha from 75,96 % (38 DA-A) to 100 % (28, 35, 58 DA-A, 51 DA-B). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 93,0 % during the assessment. (Appendix 5 tab. 26).

Winter triticales – plant

The efficiency of CHR/F/PROTAZO in control of PUCCRE was investigated in 1 trial.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha up to 78,6 % (28 DA-A), at rate 0.9 L/ha up to 100 % (28 DA-A), at rate 1.0 L/ha up to 100% (28 DA-A). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted up to 100 % during the assessment. (Appendix 5 tab. 27).

3.2.3-1.15 The efficacy of CHR/F/PROTAZO in control of PUCCSI *Puccinia striiformis*

The efficiency of CHR/F/PROTAZO in control of PUCCSI were investigated in 2 trials.

Winter triticales – leaves

The efficiency of CHR/F/PROTAZO in control of PUCCSI were investigated in 2 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 51,3 % (14 DA-A) to 71,3 % (22 DA-A), at rate 0.9 L/ha from 66,89 % (38 DA-A) to 83,9 % (28 DA-A), at rate 1.0 L/ha from 75,55 % (38 DA-A) to 90,7 % (37 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 84,0 % during the assessment. (Appendix 5 tab. 28).

Winter triticale – ear

The efficiency of CHR/F/PROTAZO in control of PUCCSI was investigated in 1 trial. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 74,43 % (46 DA-A) to 97,39 % (38 DA-A), at rate 0.9 L/ha from 78,73 % (46 DA-A) to 98,08 % (38 DA-A), at rate 1.0 L/ha from 86,73 % (46 DA-A) to 100 % (22 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 95,0 % during the assessment. (Appendix 5 tab. 29).

3.2.3-1.16 The efficacy of CHR/F/PROTAZO in control of SEPTTR *Mycosphaerella graminicola*

One application

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 8 trials

Winter triticale - leaves

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 8 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 28,47 % (21 DA-A) to 92,89 % (35 DA-A), at rate 0.9 L/ha from 30,89 % (21 DA-A) to 92,91 % (35 DA-A), at rate 1.0 L/ha from 38,24 % (21 DA-A) to 95,4 % (37 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 85,0 % during the assessment. (Appendix 5 tab. 30).

Winter triticale - plant

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 3 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 52,6 % (35 DA-A) to 71,3 % (32 DA-A), at rate 0.9 L/ha from 65,7 % (21 DA-A) to 80,4 % (18 DA-A), at rate 1.0 L/ha from 79,6 % (21 DA-A) to 88,1 % (32 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 83,0 % during the assessment. (Appendix 5 tab. 31).

Two application

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 6 trials.

Winter triticale - leaves

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 6 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 38,4 % (15 DA-A) to 99,54 % (20 DA-A), at rate 0.9 L/ha from 55,01 % (14 DA-B) to 100,0 % (20 DA-A), at rate 1.0 L/ha from 59,78 % (14 DA-B) to 100,0 % (20 DA-A). The efficacy of the tested fungicide was comparable to the standard product Proline, Delaro and was higher than the standard Amistar, Makler, Torero. In the trial efficacy amounted above 87,0 % during the assessment. (Appendix 5 tab. 32).

Winter triticale - plant

The efficiency of CHR/F/PROTAZO in control of SEPTTR were investigated in 3 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 44,3 % (15 DA-A) to 86,6 % (28 DA-A), at rate 0.9 L/ha from 75,6 % (21 DA-B) to 91,1 % (28 DA-A), at rate 1.0 L/ha from 84,0 % (15 DA-A) to 96,4 % (28 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 88,0 % during the assessment. (Appendix 5 tab. 33).

3.2.3-1.17 The efficacy of CHR/F/PROTAZO in control of RHYNSE *Rhynchosporium secalis*

The efficiency of CHR/F/PROTAZO in control of RHYNSE were investigated in 6 trials.

Winter triticale - leaves

The efficiency of CHR/F/PROTAZO in control of RHYNSE were investigated in 6 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 47,4 % (21 DA-A) to 86,57 % (35 DA-A), at rate 0.9 L/ha from 64,8 % (21 DA-A) to 89,83 % (14 DA-A), at rate 1.0 L/ha from 78,7 % (39 DA-A) to 97,33 % (14 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 87,0 % during the assessment. (Appendix 5 tab. 34).

Winter triticale – plant

The efficiency of CHR/F/PROTAZO in control of RHYNSE were investigated in 3 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 56,3 % (39 DA-A) to 73,0 % (32 DA-A), at rate 0.9 L/ha from 70,2 % (39 DA-A) to 76,7 % (35 DA-A), at rate 1.0 L/ha from 79,0 % (39 DA-A) to 86,3 % (21 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 83,0 % during the assessment. (Appendix 5 tab. 35).

3.2.3-1.18 The efficacy of CHR/F/PROTAZO in control of FUSACU *Fusarium culmorum*

The efficiency of CHR/F/PROTAZO in control of FUSACU were investigated in 6 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 70,8 (27 DA-A) to 95,26% (21 DA-A), at rate 0.9 L/ha from 78,0 % (28 DA-A) to 100 % (21 DA-A), at rate 1.0 L/ha from 86,5 % (28 DA-A) to 100% (21 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 90 % during the assessment. (Appendix 5 tab. 36).

3.2.3-1.19 The efficacy of CHR/F/PROTAZO in control of LEPTNO *Septoria nodorum/Phaeosphaeria nodorum*

The efficiency of CHR/F/PROTAZO in control of LEPTNO were investigated in 7 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 56,3 (29 DA-A) to 96,92 % (21 DA-A), at rate 0.9 L/ha from 66,7 % (29 DA-A) to 97,46 % (21 DA-A), at rate 1.0 L/ha from 80,8 % (27 DA-A) to 98,23 % (21 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 87 % during the assessment. (Appendix 5 tab. 37).

3.2.3-1.20 The efficacy of CHR/F/PROTAZO in control of RHIZCE *Rhizoctonia cerealis*

The efficiency of CHR/F/PROTAZO in control of RHIZCE were investigated in 2 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 71,3 (97 DA-A) to 84,4 % (115 DA-A), at rate 0.9 L/ha from 71,3 % (97 DA-A) to 84,4 % (115 DA-A), at rate 1.0 L/ha from 83,0 % (97 DA-A) to 91,1 % (115 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 87 % during the assessment. (Appendix 5 tab. 38).

Spring barley

3.2.3-1.21 The efficacy of CHR/F/PROTAZO in control of PUCCHD *Puccinia hordei*

Spring barley – leaves

The efficiency of CHR/F/PROTAZO in control of PUCCHD was investigated in 11 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 30,7% (14 DA-A) to 100 % (28, 29, 36 DA-B), at rate 0.9 L/ha from 75,15 % (21 DA-B) to 100 % (28, 29, 36 DA-B), at rate 1.0 L/ha from 78,4 % (14 DA-A) to 100 % (28, 29, 36 DA-B). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 93 % during the assessment. (Appendix 5 tab. 39).

3.2.3-1.22 The efficacy of CHR/F/PROTAZO in control of PYRNTE *Pyrenophora teres*

The efficiency of CHR/F/PROTAZO in control of PYRNTE were investigated in 19 trials.

Spring barley – leaves

The efficiency of CHR/F/PROTAZO in control of PYRNTE were investigated in 19 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 24,27% (28 DA-B) to 97,26 % (28 DA-B), at rate 0.9 L/ha from 29,02% (28 DA-B) to 97,72 % (28 DA-B), at rate 1.0 L/ha from 21,61 % (28 DA-B) to 99,60 % (14 DA-B). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted up to 83 % during the assessment. (Appendix 5 tab. 40).

Spring barley – plant

The efficiency of CHR/F/PROTAZO in control of PYRNTE were investigated in 6 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 40 % (0 DA-B) to 91,7 % (14 DA-B), at rate 0.9 L/ha from 52,9 % (28 DA-B) to 93,9 % (14 DA-B), at rate 1.0 L/ha from 67,7 % (28 DA-B) to 97,8 % (14 DA-B). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted above 84 % during the assessment. (Appendix 5 tab. 41).

3.2.3-1.23 The efficacy of CHR/F/PROTAZO in control of ERYSGR *Blumeria graminis*

The efficiency of CHR/F/PROTAZO in control of EYSGR were investigated in 8 trials.

Spring barley – leaves

The efficiency of CHR/F/PROTAZO in control of ERYSGR was investigated in 8 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 52,5% (0 DA-B) to 84,55 % (19 DA-A), at rate 0.9 L/ha from 68,6 % (0 DA-B) to 91,94 % (19 DA-A), at rate 1.0 L/ha from 81,1 % (0 DA-B) to 96,11 % (19 DA-A). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy above 87 % during the assessment. (Appendix 5 tab. 42).

Spring barley – plant

The efficiency of CHR/F/PROTAZO in control of ERYSGR were investigated in 2 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 58,2 % (0 DA-B) to 75,5 % (14 DA-B), at rate 0.9 L/ha from 74,2 % (0 DA-B) to 86 % (14 DA-B), at rate 1.0 L/ha from 84,4 % (0 DA-B) to 95,0 % (14 DA-B). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 90 % during the assessment. (Appendix 5 tab. 43).

3.2.3-1.24 The efficacy of CHR/F/PROTAZO in control of RHYNSE *Rhynchosporium secalis*

The efficiency of CHR/F/PROTAZO in control of RHYNSE were investigated in 12 trials.

Spring barley – leaves

The efficiency of CHR/F/PROTAZO in control of RHYNSE were investigated in 12 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 56,3% (21 DA-B) to 96,85 % (7 DA-B), at rate 0.9 L/ha from 69,6 % (35 DA-B) to 97,79 % (7 DA-B), at rate 1.0 L/ha from 72,91 % (24 DA-B) to 98,89 % (7 DA-B). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 87 % during the assessment. (Appendix 5 tab. 44).

Spring barley – plant

The efficiency of CHR/F/PROTAZO in control of RHYNSE were investigated in 3 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 60,3% (28 DA-B) to 74,6 % (14 DA-B), at rate 0.9 L/ha from 72,2 % (29 DA-B) to 83,7 % (14 DA-B), at rate 1.0 L/ha from 79,6 % (35 DA-B) to 86,8 % (19 DA-B). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted above 83 % during the assessment. (Appendix 5 tab. 45).

3.2.3-1.25 The efficacy of CHR/F/PROTAZO in control of FUSACU *Fusarium culmorum*

The efficiency of CHR/F/PROTAZO in control of FUSACU were investigated in 8 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 46,9% (29 DA-A) to 87,35 % (32 DA-A), at rate 0.9 L/ha from 59,3 % (29 DA-A) to 97,22 % (32 DA-A), at rate 1.0 L/ha from 73,8 % (29 DA-A) to 98,73 % (32 DA-A). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 89 % during the assessment. (Appendix 5 tab. 46).

3.2.3-1.26 The efficacy of CHR/F/PROTAZO in control of RAMUCC *Ramularia collo-cygni*

The efficiency of CHR/F/PROTAZO in control of PUCCHD was investigated in 2 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 17,23% (29 DA-B) to 81,7 % (29, 36 DA-B), at rate 0.9 L/ha from 44,08 % to 91,82 % (29, 36 DA-B), at rate 1.0 L/ha from 51,11 % to 92,25 % (29, 36 DA-B). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 64 % during the assessment. (Appendix 5 tab. 47).

Winter oilseed rape

3.2.3-1.27 The efficacy of CHR/F/PROTAZO in control of SCLESC *Sclerotinia sclerotiorum*.

stem

The efficiency of CHR/F/PROTAZO in control of SCLESC were investigated in 10 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 44,3 % (66 DA-A) to 88,2 % (68 DA-A), at rate 0.9 L/ha from 53,2 % (71 DA-A) to 95 % (61 DA-A), at rate 1.0 L/ha from 54,1 % (66 DA-A) to 100 % (15, 61, 68 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 86 % during the assessment. (Appendix 5 tab. 48).

3.2.3-1.28 The efficacy of CHR/F/PROTAZO in control of ALTEBA *Alternaria brassicae*.

The efficiency of CHR/F/PROTAZO in control of ALTEBA were investigated in 12 trials.

Leaf

The efficiency of CHR/F/PROTAZO in control of ALTEBA were investigated in 4 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 73,49 % (23 DA-A) to 98,9 % (25 DA-A), at rate 0.9 L/ha from 76,76 % (23 DA-A) to 98,9 % (25 DA-A), at rate 1.0 L/ha from 84,08 % (23 DA-A) to 100 % (25 DA-A). The efficacy of the tested fungicide was slightly higher than the standard product Amistar, Makler and comparable to the standard Tilmor, Toledo Extra. In the trial efficacy amounted above 91 % during the assessment. (Appendix 5 tab. 49).

Pod

The efficiency of CHR/F/PROTAZO in control of ALTEBA were investigated in 9 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 58,14% (60 DA-A) to 83,53 % (60 DA-A), at rate 0.9 L/ha from 68,5 % (59 DA-A) to 86,3 % (60 DA-A), at rate 1.0 L/ha from 74,8 % (59 DA-A) to 92,66 % (60 DA-A). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 83 % during the assessment. (Appendix 5 tab. 50).

3.2.3-1.29 The efficacy of CHR/F/PROTAZO in control of VERTLO *Verticillium longisporum*.

stem

The efficiency of CHR/F/PROTAZO in control of VERTLO were investigated in 6 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the low level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 19,0 % (86 DA-A) to 43,8 % (48 DA-A), at rate 0.9 L/ha from 25,0 % (88 DA-A) to 52,7 % (48 DA-A), at rate 1.0 L/ha from 31,0 % (86 DA-A) to 73,0 % (69 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 51 % during the assessment. (Appendix 5 tab. 51).

3.2.3-1.30 The efficacy of CHR/F/PROTAZO in control of BOTRCI *Botrytis cinerea*.

pod P

The efficiency of CHR/F/PROTAZO in control of BOTRCI were investigated in 2 trials.

The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 64,47 % (41 DA-A) to 72,92 % (48 DA-A), at rate 0.9 L/ha from 72,79 % (41 DA-A) to 76,84 % (48 DA-A), at rate 1.0 L/ha from 80,56 % (48 DA-A) to 82,40 % (41 DA-A). The efficacy of the tested fungicide was higher than the standard product Amistar and comparable to the standard Tilmor. In the trial efficacy amounted above 81 % during the assessment. (Appendix 5 tab. 52).

Conclusions on the biological efficacy 2019, 2020 and 2021

The obtained data in performed trials show CHR/F/PROTAZO provides benefits against the most important weeds diseases in winter wheat, winter triticale, spring barley and winter oilseed rape. On the basis of submitted research, it is possible to state that CHR/F/PROTAZO used at dose controlled:

The following table describes the effectiveness of fungal diseases

≥ 80% – Effectively controlled (E)
 60 – 80% – Medium effectively controlled (ME)
 40 – 60% – Limiting the number of pest (R)
 < 40% – Not effective (N)

Winter wheat

No	Product dose (L/ha)	EPPO code	Scientific name	Average (%) stem	Average (%) leaf	Average (%) plant	Average (%) ear	Efficacy
1.	CHR/F/PROTAZO 375 SC 0,8 L/ha	PSDCHE	<i>Oculimacula yallundae</i>	63,99				ME
		FUSASP	<i>Fusarium sp.</i>	56,67				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		60,62	58,78		R
		ERYSGR	<i>Blumeria graminis - two application</i>		59,60	68,37		ME
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		64,99	69,63		ME
		PUCCRE	<i>Puccinia recondita</i>		57,13	78,60		ME
		PUCCSI	<i>Puccinia striiformis tritici</i>		65,78			ME
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		61,68	63,84		ME
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		62,61	54,57		R
		FUSACU	<i>Fusarium culmorum</i>				66,82	ME
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				65,68	ME
		RHIZCE	<i>Rhizoctonia cerealis</i>	61,47				ME
2.	CHR/F/PROTAZO 375 SC 0,9 L/ha	PSDCHE	<i>Oculimacula yallundae</i>	71,97				ME
		FUSASP	<i>Fusarium sp.</i>	67,05				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		70,55	69,15		ME
		ERYSGR	<i>Blumeria graminis - two application</i>		72,63	76,37		ME
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		76,25	79,23		ME
		PUCCRE	<i>Puccinia recondita</i>		75,75	100,00		E
		PUCCSI	<i>Puccinia striiformis tritici</i>		77,72			ME
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		70,87	72,40		ME
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		71,45	62,30		ME
		FUSACU	<i>Fusarium culmorum</i>				73,26	ME
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				79,96	ME
		RHIZCE	<i>Rhizoctonia cerealis</i>	71,83				ME
3.	CHR/F/PROTAZO 375 SC 1,0 L/ha	PSDCHE	<i>Oculimacula yallundae</i>	80,74				E
		FUSASP	<i>Fusarium sp.</i>	79,76				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		79,12	76,83		ME

		ERYSGR	<i>Blumeria graminis - two application</i>		81,59	78,72		E
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		87,35	90,17		E
		PUCCRE	<i>Puccinia recondita</i>		87,92	100,00		E
		PUCCSI	<i>Puccinia striiformis tritici</i>		89,58			E
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		79,68	77,08		ME
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		79,55	67,35		ME
		FUSACU	<i>Fusarium culmorum</i>				85,92	E
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				88,78	E
		RHIZCE	<i>Rhizoctonia cerealis</i>	81,77				E
5	Delaro 325 S.C. 1,0 L/ha	PSDCHE	<i>Oculimacula yallundae</i>	80,33				E
		FUSASP	<i>Fusarium sp.</i>	71,76				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		76,52	70,08		ME
		ERYSGR	<i>Blumeria graminis - two application</i>		78,47	71,00		ME
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		84,54	78,60		E
		PUCCRE	<i>Puccinia recondita</i>		83,30	100,00		E
		PUCCSI	<i>Puccinia striiformis tritici</i>		85,72			E
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		76,64	71,44		ME
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		77,29	61,07		ME
		FUSACU	<i>Fusarium culmorum</i>				81,10	E
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				88,35	E
		RHIZCE	<i>Rhizoctonia cerealis</i>	73,33				ME

Winter triticale

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Average (%)	Efficacy
				stem	leaf	plant	ear	
1.	CHR/F/PROTAZO 375 SC 0,8 L/ha	FUSASP	<i>Fusarium sp.</i>	60,22				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		72,72	71,43		ME
		ERYSGR	<i>Blumeria graminis - two application</i>		72,20	79,30		ME
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		73,12	63,83		ME
		PUCCRE	<i>Puccinia recondita</i>		80,42	78,60		ME
		PUCCSI	<i>Puccinia striiformis tritici</i>		59,71		89,01	ME
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		69,07	61,05		ME
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		75,36	70,58		ME
		RHYNSE	<i>Rhynchosprrium secalis</i>		73,92	62,98		ME
		FUSACU	<i>Fusarium culmorum</i>				78,26	ME
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				74,60	ME
		RHIZCE	<i>Rhizoctonia cerealis</i>	77,85				ME
2.	CHR/F/PROTAZO 375 SC 0,9 L/ha	FUSASP	<i>Fusarium sp.</i>	63,90				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		80,40	81,20		E
		ERYSGR	<i>Blumeria graminis - two application</i>		80,03	84,17		E
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		83,62	79,37		E
		PUCCRE	<i>Puccinia recondita</i>		89,06	100,00		E
		PUCCSI	<i>Puccinia striiformis tritici</i>		73,95		91,04	E
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		77,13	73,52		ME
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		83,44	80,63		E
		RHYNSE	<i>Rhynchosprrium secalis</i>		80,14	73,35		ME
		FUSACU	<i>Fusarium culmorum</i>				85,88	E
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				80,02	E
		RHIZCE	<i>Rhizoctonia cerealis</i>	77,85				ME
3.	CHR/F/PROTAZO 375 SC 1,0 L/ha	FUSASP	<i>Fusarium sp.</i>	71,92				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		83,98	85,20		E
		ERYSGR	<i>Blumeria graminis - two application</i>		86,90	93,27		E
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		91,96	87,23		E
		PUCCRE	<i>Puccinia recondita</i>		93,43	100,00		E
		PUCCSI	<i>Puccinia striiformis tritici</i>		84,17		95,32	E
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		85,03	83,67		E
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		87,21	88,68		E
		RHYNSE	<i>Rhynchosprrium secalis</i>		87,08	83,33		E
		FUSACU	<i>Fusarium culmorum</i>				90,50	E
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				87,72	E
		RHIZCE	<i>Rhizoctonia cerealis</i>	87,05				E

Spring barley

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Efficacy
				leaf	plant	ear	
1.	CHR/F/PROTAZO 375 SC 0,8 L/ha	PUCCHD	<i>Puccinia hordei</i>	80,42			E
		PYRNTE	<i>Pyrenophora teres</i>	65,18	66,06		ME
		ERYSGR	<i>Blumeria graminis</i>	71,87	69,70		ME
		RHYNSE	<i>Rhynchosprium secalis</i>	73,91	66,20		ME
		FUSACU	<i>Fusarium culmorum</i>			69,04	ME
		RAMUCC	<i>Ramularia collo-cygni</i>	39,67			N
2.	CHR/F/PROTAZO 375 SC 0,9 L/ha	PUCCHD	<i>Puccinia hordei</i>	88,91			E
		PYRNTE	<i>Pyrenophora teres</i>	76,18	75,42		ME
		ERYSGR	<i>Blumeria graminis</i>	82,78	81,97		E
		RHYNSE	<i>Rhynchosprium secalis</i>	82,70	76,95		ME
		FUSACU	<i>Fusarium culmorum</i>			80,70	E
		RAMUCC	<i>Ramularia collo-cygni</i>	55,66			R
3.	CHR/F/PROTAZO 375 SC 1,0 L/ha	PUCCHD	<i>Puccinia hordei</i>	93,48			E
		PYRNTE	<i>Pyrenophora teres</i>	83,23	84,60		E
		ERYSGR	<i>Blumeria graminis</i>	88,12	90,23		E
		RHYNSE	<i>Rhynchosprium secalis</i>	87,29	83,50		E
		FUSACU	<i>Fusarium culmorum</i>			89,03	E
		RAMUCC	<i>Ramularia collo-cygni</i>	64,37			ME

Winter oilseed rape

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Efficacy
				stem	leaf	pod	
1.	CHR/F/PROTAZO 375 SC 0,8 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	70,72			ME
		ALTEBA	<i>Alternaria brassicae</i>		87,72	68,33	ME
		VERTLO	<i>Verticillium longisporum</i>	30,94			N
		BOTRCI	<i>Botrytis cinerea</i>			68,70	ME
2.	CHR/F/PROTAZO 375 SC 0,9 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	82,23			E
		ALTEBA	<i>Alternaria brassicae</i>		85,87	76,42	E
		VERTLO	<i>Verticillium longisporum</i>	35,79			N
		BOTRCI	<i>Botrytis cinerea</i>			74,82	ME
3.	CHR/F/PROTAZO 375 SC 1,0 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	88,32			E
		ALTEBA	<i>Alternaria brassicae</i>		91,90	83,86	E
		VERTLO	<i>Verticillium longisporum</i>	51,34			R
		BOTRCI	<i>Botrytis cinerea</i>			81,48	E

Table 3.2-1: Efficacy of product CHR/F/PROTAZO at the timing of assessment.

Winter wheat

Target	CHR/F/PROTAZO	Number	Infestation in the untreated control (% leaf area/stems/ears)		% control								No of trials where Product is >, <, = compared to standard(s) **
					CHR/F/PROTAZO			Makler 250 SE, Azoxin 250 SE, Amistar, Azbany, Torero		Delaro 325 S.C., Proline			
					Mean	Min	Max	Mean	Min & Max	Mean	Min & Max		
					Mean	Min	Max	Mean	Min & Max	Mean	Min & Max		
Oculimacula yallundae	0.8 L/ha	8	18,8	13,5 & 24	63,99	35,72	79,6	73,6	39,36 & 83,08	80,33	54,9 & 93,61		
	0.9 L/ha				71,97	48,05	85,42						
	1.0 L/ha				80,74	57,03	86,94						
Fusarium spp.	0.8 L/ha	11	16,32	8 & 25	58,68	29,90	71,43	55,82	8,4 & 78,29	70,10	3,7 & 85,12		
	0.9 L/ha				69,21	42,10	83,22						
	1.0 L/ha				80,10	63,60	87,51						
Blumeria graminis - leaf, one application	0.8 L/ha	9	13,47	5,3 & 30,9	60,62	43,64	82,78	59,89	9,4 & 82,26	76,52	58,2 & 90,64		
	0.9 L/ha				70,55	48,61	87,3						
	1.0 L/ha				79,12	60,60	90,85						
Blumeria graminis - plant, one application	0.8 L/ha	2	16,43	7,2 & 29	58,78	55,70	65,3	44,35	11,9 & 72	70,08	62,5 & 79,5		
	0.9 L/ha				69,15	62,40	81,9						
	1.0 L/ha				76,83	65,30	91,7						
Blumeria graminis - leaf, two application	0.8 L/ha	6	10,35	5,1 & 19,3	59,60	29,83	80,5	46,83	4,9 & 80,19	78,47	57,9 & 100		
	0.9 L/ha				72,63	50,30	87,8						
	1.0 L/ha				81,59	58,30	100						
Blumeria graminis - plant, two application	0.8 L/ha	4	12,27	6,3 & 18,1	68,37	47,20	84	19,63	10,3 & 32,7	71,00	61,6 & 77,2		
	0.9 L/ha				76,37	55,90	92						
	1.0 L/ha				78,72	62,90	92,4						
Pyrenophora tritici repentis - leaf	0.8 L/ha	9	17,89	5 & 45	64,99	34,17	100	82,48	71,69 & 100	84,54	65,2 & 100		
	0.9 L/ha				76,25	56,35	100						
	1.0 L/ha				87,35	75,47	100						
Pyrenophora tritici repentis - plant	0.8 L/ha	2	8,83	8 & 9,6	69,63	65,60	74,6	76,2	73,4 & 80,9	78,60	68 & 88,2		
	0.9 L/ha				79,23	76,60	81,7						
	1.0 L/ha				90,17	86,70	96,1						
Puccinia triticina - leaf	0.8 L/ha	6	13,68	5 & 32,8	57,13	36,99	87	83,51	64,77 & 100	83,30	69,2 & 100		
	0.9 L/ha				75,75	59,24	100						
	1.0 L/ha				87,92	81,96	100						
Puccinia triticina - plant	0.8 L/ha	1	5	5 & 5	78,60	78,60	78,6	100	100 & 100	100,00	100 & 100		
	0.9 L/ha				100,00	100,00	100						
	1.0 L/ha				100,00	100,00	100						
Puccinia striiformis - leaf	0.8 L/ha	3	13,99	5,2 & 23,75	65,78	53,52	87,12	81,47	64,04 & 100	85,72	69,65 & 100		
	0.9 L/ha				77,72	63,64	92,56						

	1.0 L/ha				89,58	84,17	100					
Mycosphaerella graminicola - leaf, one application	0.8 L/ha	6	22,15	5,1 & 70,25	61,68	39,20	100	62,37	17,8 & 85,5	76,64	43,2 & 100	
	0.9 L/ha				70,87	48,00	100					
	1.0 L/ha				79,68	46,54	100					
Mycosphaerella graminicola - plant, one application	0.8 L/ha	3	15,9	12 & 20,7	63,84	46,00	74,7	53,42	24,7 & 81,8	71,44	52,2 & 89,1	
	0.9 L/ha				72,40	56,90	85,3					
	1.0 L/ha				77,08	57,50	93,3					
Mycosphaerella graminicola - leaf, two application	0.8 L/ha	8	11,64	5 & 48,7	62,61	33,70	87,17	61,98	17,4 & 90,49	77,29	43,9 & 100	
	0.9 L/ha				71,45	42,00	93,82					
	1.0 L/ha				79,55	50,20	100					
Mycosphaerella graminicola - plant, two application	0.8 L/ha	3	12,88	7,1 & 17,0	54,57	42,30	72,2	39,92	22,9 & 81,3	61,07	53,4 & 66,5	
	0.9 L/ha				62,30	50,40	81					
	1.0 L/ha				67,35	59,80	83,8					
Fusarium culmorum	0.8 L/ha	11	18,92	5,21 & 59,7	66,82	36,75	90,6	70,96	35,79 & 85,9	81,10	53,55 & 100	
	0.9 L/ha				73,26	43,10	100					
	1.0 L/ha				85,92	58,41	100					
Septoria nidorum/Phaeosphaeria nidorum	0.8 L/ha	8	7,67	5 & 15,8	65,68	35,30	86,32	80,43	74,8 & 86,8	88,35	85,51 & 92,9	
	0.9 L/ha				79,96	68,00	91,22					
	1.0 L/ha				88,78	86,20	94,23					
Rhizoctonia cerealis - two applicaton	0.8 L/ha	3	13,33	9,1 & 21,8	61,47	38,70	73,7	69,47	37 & 92,5	73,33	71,1 & 76,3	
	0.9 L/ha				71,83	60,40	81,6					
	1.0 L/ha				81,77	80,30	83					

A, B, C can be a “trial group” (as defined in page 10, e.g. EPPO climatic zone A) or a specific target (e.g. weed A, weed B...). In order to adapt the table to the data presented, it is possible:

- to add lines or columns,

- to duplicate the table (e.g. one table for “trial group 1”, one table for “trial group 2”, one table for “all”).

** Optional

Winter triticale

Target	CHR/F/PROTAZO at rate	Number of trials	Infestation in the untreated control (% leaf area/stems/ears)		% control								No of trials where Product is >, <, = compared to standard(s)**
					CHR/F/PROTAZO			Makler 250 SE, Azoxin 250 SE, Amistar, Azbany, Torero		Delaro 325 S.C., Proline, Input Classic			
					Mean	Min & Max		Mean	Min & Max	Mean	Min & Max		
Fusarium spp.	0.8 L/ha	6	17,31	8,9 & 22,6	60,22	42,10	69,9	56,54	(-10,5%) & 73,39	63,51	14,5 & 86,99		
	0.9 L/ha				63,90	42,10	72,76						
	1.0 L/ha				71,92	55,30	84,27						
Blumeria graminis - leaf, one application	0.8 L/ha	8	15,56	5,03 & 39,7	72,72	41,18	96,94	50,88	8,6 & 80,83	83,69	45,7 & 100		
	0.9 L/ha				80,40	46,66	97,57						
	1.0 L/ha				83,98	51,84	100						
Blumeria graminis - plant, one application	0.8 L/ha	3	8,67	6,9 & 10	71,43	63,10	86,1	31,87	26,3 & 35,2	84,53	79,4 & 94,2		
	0.9 L/ha				81,20	74,10	92,7						
	1.0 L/ha				85,20	77,00	94,9						
Blumeria graminis - leaf, two application	0.8 L/ha	6	12,59	5 & 31,4	72,20	48,89	100	57,49	14,9 & 83,67	86,46	55,5 & 100		
	0.9 L/ha				80,03	58,30	100						
	1.0 L/ha				86,90	63,00	100						
Blumeria graminis - plant, two application	0.8 L/ha	3	8,28	5 & 12,6	79,30	64,50	90,9	64,53	34,3 & 98,1	90,30	69,1 & 98,3		
	0.9 L/ha				84,17	71,30	96,2						
	1.0 L/ha				93,27	77,90	100						
Pyrenophora tritici repentis - leaf	0.8 L/ha	6	18,03	5,2 & 30	73,12	50,00	98,33	87,81	56,4 & 99,83	88,13	54,8 & 99,77		
	0.9 L/ha				83,62	60,00	98,83						
	1.0 L/ha				91,96	77,60	99,21						
Pyrenophora tritici repentis - plant	0.8 L/ha	3	7,5	5,7 & 10,1	63,83	54,70	73,6	72,83	60,2 & 89,1	76,97	60,8 & 97,4		
	0.9 L/ha				79,37	70,00	88						
	1.0 L/ha				87,23	81,50	92,5						
Puccinia triticina - leaf	0.8 L/ha	8	16,14	5 & 40	80,42	60,30	98,69	91,18	71,41 & 100	91,49	73,47 & 100		
	0.9 L/ha				89,06	70,09	100						
	1.0 L/ha				93,43	75,96	100						
Puccinia triticina - plant	0.8 L/ha	1	5	5 & 5	78,60	78,60	78,6	100,00	100 & 100	100,00	100 & 100		
	0.9 L/ha				100,00	100,00	100						
	1.0 L/ha				100,00	100,00	100						
Puccinia striiformis - leaf	0.8 L/ha	2	35,69	5,4 & 76,5	59,71	51,30	71,3	83,02	75,58 & 88,9	74,45	51,8 & 85,8		
	0.9 L/ha				73,95	66,89	83,9						
	1.0 L/ha				84,17	75,55	90,7						
Puccinia striiformis - ear	0.8 L/ha	1	37,43	6,9 & 58,8	89,01	74,43	97,39	94,50	88,84 & 97,57	90,86	78,64 & 98,43		
	0.9 L/ha				91,04	78,73	98,08						
	1.0 L/ha				95,32	86,73	100						

Mycosphaerella graminicola - leaf, one application	0.8 L/ha	8	21.91	5.2 & 95.3	69.07	28.47	92.89	61.46	12.32 & 90.68	81.58	38.93 & 94.86	
	0.9 L/ha				77.13	30.89	92.91					
	1.0 L/ha				85.03	38.24	95.4					
Mycosphaerella graminicola - plant, one application	0.8 L/ha	3	15.07	5.2 & 26.7	61.05	52.60	71.3	69.92	63.9 & 86.3	75.98	66.9 & 84.8	
	0.9 L/ha				73.52	65.70	80.4					
	1.0 L/ha				83.67	79.60	88.1					
Mycosphaerella graminicola - leaf, two application	0.8 L/ha	6	8.47	5 & 13.8	75.36	38.40	99.54	72.33	29.05 & 97.3	87.87	66.41 & 100	
	0.9 L/ha				83.44	55.01	100					
	1.0 L/ha				87.21	59.78	100					
Mycosphaerella graminicola - plant, two application	0.8 L/ha	3	7.13	5 & 12.3	70.58	44.30	86.6	80.77	66.2 & 97.3	86.05	78.6 & 99.1	
	0.9 L/ha				80.63	75.60	91.1					
	1.0 L/ha				88.68	84.00	96.4					
Rhynchosporium secalis - leaf	0.8 L/ha	6	11.16	5.1 & 34.99	73.92	47.40	86.57	69.85	22.5 & 93.32	84.69	61.7 & 93.69	
	0.9 L/ha				80.14	64.80	89.83					
	1.0 L/ha				87.08	78.70	97.33					
Rhynchosporium secalis - plant	0.8 L/ha	3	9.4	6.6 & 11.3	62.98	56.30	73	46.15	24.4 & 65	74.45	61.7 & 84.2	
	0.9 L/ha				73.35	70.20	76.7					
	1.0 L/ha				83.33	79.00	86.3					
Fusarium culmorum	0.8 L/ha	6	10.23	5.8 & 14.9	78.26	70.80	95.26	86.73	81.7 & 96.42	86.25	81.3 & 96.4	
	0.9 L/ha				85.88	78.00	95.88					
	1.0 L/ha				90.50	86.50	96.26					
Septoria nodorum/Phaeosphaeria nodorum	0.8 L/ha	7	19.39	5.2 & 37.8	74.60	56.30	96.92	76.36	43.3 & 99.37	85.48	69.1 & 98.04	
	0.9 L/ha				80.02	66.70	97.46					
	1.0 L/ha				87.72	80.80	98.23					
Rhizoctonia cerealis - two applicaton	0.8 L/ha	2	10.75	9.6 & 11.9	77.85	71.30	84.4	68.50	68.1 & 68.9	59.30	31.9 & 86.7	
	0.9 L/ha				77.85	71.30	84.4					
	1.0 L/ha				87.05	83.00	91.1					

A, B, C can be a “trial group” (as defined in page 10, e.g. EPPO climatic zone A) or a specific target (e.g. weed A, weed B...). In order to adapt the table to the data presented, it is possible:

- to add lines or columns,
- to duplicate the table (e.g. one table for “trial group 1”, one table for “trial group 2”, one table for “all”).

** Optional

Spring barley

Target	CHR/F/PROTAZO	Number	Infestation in the untreated control (% leaf area/stems/ears)		% control								No of trials where Product is >, <, = compared to standard(s)**
					CHR/F/PROTAZO			Elatus Era 225/ Delaro/ Fandango 200 EC/ Proline		Makler 250 SE/Amistar/ Tazer			
					Mean	Min	Max	Mean	Min & Max	Mean	Min & Max		
					Mean	Min	Max	Mean	Min & Max	Mean	Min & Max		
Puccinia hordei - leaf	0,8 L/ha	11	16,08	5,1 & 37,85	80,42	30,70	100	91,57	62,69 & 100	92,36	74,7 & 100		
	0,9 L/ha				88,91	75,15	100						
	1,0 L/ha				93,48	78,40	100						
Pyrenophora teres - leaf	0,8 L/ha	19	23,95	5,3 & 90,63	65,18	24,27	97,26	78,75	2,6 & 99,16	74,49	5,37 & 99,28		
	0,9 L/ha				76,18	29,02	97,72						
	1,0 L/ha				83,23	21,61	99,6						
Pyrenophora teres - plant	0,8 L/ha	6	18,32	6,8 & 38,3	66,06	40,00	91,7	64,70	8,8 & 96,60	73,23	50,5 & 92,20		
	0,9 L/ha				75,42	52,90	93,9						
	1,0 L/ha				84,60	67,70	97,8						
Blumeria graminis - leaf	0,8 L/ha	8	8,02	5,1 & 13,4	71,87	52,50	84,55	83,67	65,4 & 96,11	61,64	24,5 & 85,6		
	0,9 L/ha				82,78	68,60	91,94						
	1,0 L/ha				88,12	81,10	96,11						
Blumeria graminis - plant	0,8 L/ha	2	7,2	6,6 & 7,5	69,70	58,20	75,5	72,90	65,3 & 76,7	34,73	26,0 & 43,9		
	0,9 L/ha				81,97	74,20	86						
	1,0 L/ha				90,23	84,40	95						
Rhynchosporium secalis - leaf	0,8 L/ha	12	15,89	5,1 & 58,4	73,91	56,30	96,85	84,67	40,8 & 98,95	77,93	43,7 & 98,66		
	0,9 L/ha				82,70	69,60	97,79						
	1,0 L/ha				87,29	72,91	98,89						
Rhynchosporium secalis - plant	0,8 L/ha	3	8,53	5,6 & 12,3	66,20	60,30	74,6	54,72	30,0 & 73,5	55,20	30,6 & 74,20		
	0,9 L/ha				76,95	72,20	83,7						
	1,0 L/ha				83,50	79,60	86,8						
Fusarium culmorum	0,8 L/ha	8	18,44	5,7 & 26,3	69,04	46,90	87,35	87,03	68,6 & 98,99	72,15	44,9 & 99,05		
	0,9 L/ha				80,70	59,30	97,22						
	1,0 L/ha				89,03	73,80	98,73						
Ramularia collo-cygni	0,8 L/ha	2	31,8	5,4 & 60,6	17,23	81,70	39,67	57,54	50,09 & 66,04	35,89	15,23 & 79,91		
	0,9 L/ha				44,08	91,82	55,66						
	1,0 L/ha				51,11	92,25	64,37						

A, B, C can be a “trial group” (as defined in page 10, e.g. EPPO climatic zone A) or a specific target (e.g. weed A, weed B...). In order to adapt the table to the data presented, it is possible:

- to add lines or columns,
- to duplicate the table (e.g. one table for “trial group 1”, one table for “trial group 2”, one table for “all”).

** Optional

Winter oilseed rape

Target	CHR/F/PROTAZO at rate	Number of trials	Infestation in the untreated control (% leaf area/stems/ears)		% control								No of trials where Product is >, < = compared to standard(s)**
					CHR/F/PROTAZO			Toledo Extra 430 S.C., Tilmor, Proline		Makler 250 SE, Amistar, Ortiva			
					Mean	Min & Max	Mean	Min	Max	Mean	Min & Max	Mean	Min & Max
<i>Sclerotinia sclerotiorum</i> - stem	0,8 L/ha	10	39	15 & 88	70,72	44,30	100	78,68	19,7 & 100	75,83	44,3 & 100		
	0,9 L/ha				82,23	53,20	100						
	1,0 L/ha				88,32	54,10	100						
<i>Alternaria brassicae</i> - leaf	0,8 L/ha	4	5,33	5,2 & 5,5	87,72	73,49	98,9	92,20	84,84 & 98,9	80,79	76,36 & 87,11		
	0,9 L/ha				85,87	76,76	98,9						
	1,0 L/ha				91,90	84,08	100						
<i>Alternaria brassicae</i> - pod	0,8 L/ha	9	12,99	5,33 & 34,9	68,33	58,14	83,53	77,68	60,0 & 88,28	77,44	64,8 & 87,98		
	0,9 L/ha				76,42	68,50	86,3						
	1,0 L/ha				83,86	74,80	92,66						
<i>Verticillium longisporum</i> - stem	0,8 L/ha	6	59,77	42,0 & 69,0	30,94	19,00	43,8	39,94	1,2 & 73,0	33,74	21,0 & 69,3		
	0,9 L/ha				35,79	25,00	52,7						
	1,0 L/ha				51,34	31,00	73						
<i>Botrytis cinerea</i> - pod	0,8 L/ha	2	5,41	5,32 & 5,5	68,70	64,47	72,92	81,65	80,91 & 82,39	76,25	76,19 & 76,3		
	0,9 L/ha				74,82	72,79	76,84						
	1,0 L/ha				81,48	80,56	82,4						

* A, B, C can be a “trial group” (as defined in page 10, e.g. EPPO climatic zone A) or a specific target (e.g. weed A, weed B...). In order to adapt the table to the data presented, it is possible:

- to add lines or columns,
- to duplicate the table (e.g. one table for “trial group 1”, one table for “trial group 2”, one table for “all”).

** Optional

Crop(s) 2 / Target(s) 2

Not applicable

Minor use

Not applicable

Yield (and relevant quality indicators), from efficacy trials (in the presence of challenging pest populations)

Not applicable

Table 3.2-2: Yield (quality) effect of product in efficacy trials on crop * target 1

Not applicable

Summary and conclusion

Not applicable

Comments of zRMS:
<p>The applicant submitted 139 reports showing the results in research into product efficacy carried out in 2019, 2020, 2021 on cultivars of:</p> <ul style="list-style-type: none">- winter wheat (43 trials) against: <i>Oculimacula yallundae</i>, <i>Blumeria graminis</i>, <i>Fusarium spp.</i>, <i>Pyrenophora tritici-repentis</i>, <i>Puccinia recondita</i>, <i>Puccinia striiformis</i>, <i>Mycosphaerella graminicola</i>, <i>Rhizoctonia cerealis</i>, <i>Septoria nodorum</i>, <i>Fusarium culmorum</i>;- winter triticale (37 trials) against: <i>Blumeria graminis</i>, <i>Fusarium spp.</i>, <i>Pyrenophora tritici-repentis</i>, <i>Puccinia recondita</i>, <i>Puccinia striiformis</i>, <i>Rhynchosporium secalis</i>, <i>Mycosphaerella graminicola</i>, <i>Rhizoctonia cerealis</i>, <i>Septoria nodorum</i>, <i>Fusarium culmorum</i>;- spring barley (40 trials) against: <i>Erysiphe graminis</i>, <i>Pyrenophora teres</i>, <i>Rhynchosporium secalis</i>, <i>Ramularia collo-cygni</i>, <i>Puccinia hordei</i>, <i>Fusarium culmorum</i>;- winter oil seed rape (19 trials) against <i>Alternaria brassicae</i>, <i>Sclerotinia sclerotiorum</i>, <i>Verticillium longisporum</i>, <i>Botrytis cinerea</i>. <p>In these trials, the efficacy of CHR/F/PROTAZO was compared to following reference products:</p> <ul style="list-style-type: none">- Delaro 325 SC, Azoxin 250 SE, Makler 250 SE, Amistar 250 SC, Proline 375 SC, Azbany 250 SC, Torero 250 SC in winter wheat;- Delaro 325 SC, Azoxin 250 SE, Makler 250 SE, Amistar 250 SC, Input Classic, Torero 250 SC, Ortiva in winter triticale;- Delaro 325 SC, Azoxin 250 SE, Makler 250 SE, Elatus Era, Fandango 200 EC, Tazer 250 SC, Amistar 250 SC, Proline 375 SC, Azbany 250 SC, in spring barley- Delaro 325 SC, Azoxin 250 SE, Makler 250 SE, Toledo Extra 430 SC, Proline 375 SC, Propulse, Amistar 250 SC, Tilmor 240 EC, in oilseed rape <p>Trials were conducted in several region in Poland the Czech Republic and Germany. To be able to accept data the from CZ – the Maritime EPPO climatic zone, the Applicant presented the document „Comparison of Climatic and Agricultural Conditions in Poland and the Czech Republic in Reference to Registration of plant protection product CHR/F/PROTAZO”(Appendix 2).</p> <p>Data from the Czech Republic and from Germany were taken under account in the evaluation of the product efficacy.</p> <p>In all mentioned regions winter wheat, winter triticale, spring barley and winter oil seed rape were grown commercially with natural diseases infection. Trials were of randomized block design with a minimum of four replicates. Details on trial sites, applications are included in the Appendix 3 and in the tables „Details of experiment”.</p> <p>All trials were conducted by: A.T Sp. z o.o.; SynTech Research Poland sp. z o. o.; Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; SynTech Research Czech Republic s.r.o.; ZS Nechanice; SynTech Research Germany; Hetterich Fieldwork GbR which are units with rights for performing investigation on efficacy of plant protection products. Investigations were performed according to principles of “Good Experimental Practice” (GEP).</p> <p>The efficacy trials were designed, conducted and reported according to the following EPPO guidelines:</p> <ul style="list-style-type: none">- PP 1/135 (4) Phytotoxicity assessment- PP 1/152 (4) Design and analysis of efficacy evaluation trials- PP 1/181 (4) Conduct and reporting of efficacy evaluation trials including good experimental practice- PP 1/26 (4) Foliar and ear diseases on cereals- PP 1/28 (3) Eyespot of cereals- PP 1/78(3) Root, stem, foliar and pod diseases on oilseed rape

The product CHR/F/PROTAZO has been tested:

- in winter wheat at the following rates of 0,8; 0,9; 1,0 L/ha and was applied one time (BBCH 25-71, spray volume 200 – 300 l/ha) and two times with interval 13 - 26 days (first dose rate - BBCH 30-39 and second dose rate BBCH 32 – 61, spray volume 200 – 300 l/ha);
- in winter triticale at the following rates of 0,8; 0,9; 1,0 L/ha and was applied one time (BBCH 27-69, spray volume 200 – 300 l/ha) and two times with interval 13-28 days (first dose rate - BBCH 31-41 and second dose rate BBCH 32 – 61, spray volume 200 – 300 l/ha);
- in spring barley at the following rates of 0,6; 0,8; 0,9; 1,0 L/ha and was applied one time (BBCH 30-55, spray volume 200 – 300 l/ha) and two times with interval 13 - 34 days (first dose rate -BBCH 28-39 and second dose rate BBCH 37 – 69, spray volume 200 – 300 l/ha);
- in oilseed rape at the following rates of 0,8; 0,9; 1,0 L/ha and was applied one time (BBCH 57-69, spray volume 200 – 300 l/ha).

The recommended dose rate of product is 1,0 L/ha, applied one time or two times.

The effectiveness of the product was describe according to the following scale

≥ 80% – Effectively controlled (E)

60 – 80% – Medium effectively controlled (ME)

0 – 60% – Limiting the number of pest (R)

< 40% - Not effective (N)

Once application per season 1,0 L/ha

The effectiveness of CHR/F/PROTAZO on **winter wheat** was evaluated:

- against *Oculimacula yallundae* **PSDCHE** in 8 trials and the tested product effectively controlled the disease (80,7 % on **STEM**) and at a similar level as the one reference product and superior numerically to that provided by the second reference product – **E**;
- against *Fusarium sp.* **FUSASP** in 11 trials. In trials conducted on **STEM** the product effectively controlled the disease (79,8 %) and better than provided by the reference products- **E**;
- against *Blumeria graminis* **ERYSGR** in 9 trials on **LEAVES** and in 2 trials on **PLANT** achieved a medium level of disease control (79,1 % and 76,8 % respectively) and performed similarly or better than the reference products – **ME**;
- against *Pyrenophora tritici-repentis* **PYRNTR** in 9 trials on **LEAVES** and in 2 trials on **PLANT** and the tested product effectively controlled the disease (87,3 % and 90,2 % respectively) at a similar level or better as the reference products – **E**;
- against *Puccinia recondita* **PUCCRE** in 6 trials on **LEAVES** and in 1 trial on **PLANT** and the tested product effectively controlled the disease (87,9 % and 100 % respectively) at a similar level as the reference products – **E**;
- against *Mycosphaerella graminicola* **SEPTTR** in 7 trials on **LEAVES** and in 3 trials on **PLANT**. The tested product achieved a medium level of disease control (79,7 % and 77,1 % respectively) and a similar or better level in comparison to the reference products – **ME**;
- against *Fusarium culmorum* **FUSACU** in 11 trials on **EAR**. The tested product effectively controlled the disease (85,2%) and a similar or better level in comparison to the reference products – **E**

- against *Septoria nodorum* **LEPTNO** in 8 trials on **EAR** and the tested product effectively controlled the disease (88,8 %) at a similar or better level as the reference products – **E**;
- against *Puccinia striiformis* **PUCSSI** in 3 trials. In trials conducted on **LEAVES** the product effectively controlled the disease (89,6 %) and a little better than provided by the reference products- **E**;
- against *Rhizoctonia cerealis* **RHIZCE** in 3 trials on **STETOT** the tested product effectively controlled the disease (81,8%) at a better level as the reference products – **E**;

The Applicant presented only three trials for control of *Puccinia striiformis* and 3 trials for *Rhizoctonia cerealis*, major diseases of winter wheat. In this case the acceptable number of trials should be at least 6 or 5 (if efficacy results in those trials are coherent (on similar level)). ~~Data for control of *Puccinia striiformis* and *Rhizoctonia cerealis* on winter wheat are not sufficient to evaluate efficacy.~~ Nevertheless those diseases are considered minor relevance in so less number of trials might be sufficient to confirm efficacy.

The effectiveness of CHR/F/PROTAZO on **winter triticale** was evaluated:

- against *Fusarium sp.* **FUSASP** in 6 trials. In trials conducted on **STEM** the product achieved a medium level of disease control (71,9%) and better than provided by the reference products- **ME**;
- against *Blumeria graminis* **ERYSGR** in 8 trials on **LEAVES** and in 3 trials on **PLANT** the tested product effectively controlled the disease (84,0% and 85,2 % respectively) at a similar or better level as the reference products – **E**;
- against *Pyrenophora tritici-repentis* **PYRNTR** in 6 trials on **LEAVES** and in 3 trials on **PLANT** and the tested product effectively controlled the disease (92,0 % and 87,2 % respectively) at a similar or better level as the reference products – **E**;
- against *Puccinia recondita* **PUCCRE** in 8 trials on **LEAVES** and in 1 trial on **PLANT** and the tested product effectively controlled the disease (93,4% and 100% respectively) at a similar level as the reference products – **E**;
- against *Mycosphaerella graminicola* **SEPTTR** in 8 trials on **LEAVES** and in 3 trials on **PLANT**. The tested product effectively controlled the disease (85,3% and 83,7 % respectively) and a similar or better level in comparison to the reference products – **E**;
- against *Rhynchosporium secalis* **RHYNSE** in 6 trials on **LEAVES** and in 3 trials on **PLANT**. The tested product effectively controlled the disease (87,1% and 83,3% respectively) and a similar or better level in comparison to the reference products – **E**;
- against *Fusarium culmorum* **FUSACU** in 6 trials on **EAR**. The tested product effectively controlled the disease (90,5%) and a better level in comparison to the reference products – **E**;
- against *Septoria nodorum* **LEPTNO** in 7 trials on **EAR** and the tested product effectively controlled the disease (87,2 %) at a similar or better level as the reference product – **E**;
- against *Puccinia striiformis* **PUCSSI** in 2 trials. In trials conducted on **LEAVES** and on **EAR** the product effectively controlled the disease (95,3 %) and a little better than provided by the reference products- **E**;
- against *Rhizoctonia cerealis* **RHIZCE** in 2 trials on **STETOT** the tested product effectively controlled the disease (87,1%) at a better level as the reference products – **E**;

The Applicant presented only two trials for control of *Puccinia striiformis* and 2 trials for *Rhizoctonia cerealis*, major diseases of winter triticale. In this case the acceptable number of trials should be at least 6 or 5 (if efficacy results in those trials are coherent (on similar level)). ~~Data for control of *Puccinia striiformis* and *Rhizoctonia cerealis* on winter triticale are not sufficient to evaluate efficacy.~~ Nevertheless those diseases are considered

minor relevance so less number of trials might be sufficient to confirm efficacy.

The effectiveness of CHR/F/PROTAZO on **spring barley** was evaluated:

- against *Fusarium culmorum* **FUSACU** in 8 trials on **EAR**. The tested product effectively controlled the disease (89,0 %) and a similar or better level in comparison to the reference products – **E**

The effectiveness of CHR/F/PROTAZO on **winter oilseed rape** was evaluated:

- against *Sclerotinia sclerotiorum* **SCLESC** in 10 trials on **STEM** and the tested product effectively controlled the disease (88,3%) better than the reference products- **E**;
- against *Alternaria brassicae* **ALTEBA** in 9 trials on **POD** and in 4 trials on **LEAVES** and the tested product effectively controlled the disease (83,7% and 91,9%) at a similar level as the reference products – **E**;
- against *Verticillium longisporum* **VERTLO** in 6 trials on **STEM** and the tested product limited the disease (51,3%) at a better level as the reference products – **R**

The Applicant presented only two trials for control of *Botrytis cinerea* a major disease of winter wheat. In this case the acceptable number of trials should be at least 6 or 5 (if efficacy results in those trials are coherent (on similar level)). Data for control of *Botrytis cinerea* on winter wheat are not sufficient to evaluate efficacy.

Twice application per season 1,0 L/ha + 1,0 L/ha

The effectiveness of CHR/F/PROTAZO on **winter wheat** was evaluated:

- against *Blumeria graminis* **ERYSGR** in 6 trials on **LEAVES** and in 4 trials on **PLANT** the tested product effectively controlled the disease (81,6% and 78,7% respectively) at a better level as the reference products – **E**;
- against *Mycosphaerella graminicola* **SEPTTR** in 8 trials on **LEAVES** and in 3 trials on **PLANT** and the tested product achieved a medium level of disease control (79,5% and 67,3% respectively) and performed similarly or better than the reference products – **ME**

The effectiveness of CHR/F/PROTAZO on **winter triticale** was evaluated:

- against *Blumeria graminis* **ERYSGR** in 6 trials on **LEAVES** and in 3 trials on **PLANT** and the tested product effectively controlled the disease (86,9% and 93,3% respectively) at a similar or better level as the reference product – **E**;
- against *Mycosphaerella graminicola* **SEPTTR** in 6 trials on **LEAVES** and in 3 trials on **PLANT** and the tested product effectively controlled the disease (87,2% and 88,7% respectively) at a similar or better level as the reference product – **E**

The effectiveness of CHR/F/PROTAZO on **spring barley** was evaluated:

- against *Puccinia hordei* **PUCCHD** in 11 trials on **LEAVES**. The tested product effectively controlled the disease (93,5%) at a similar level in comparison to the reference products – **E**;
- against *Pyrenophora teres* **PYRNTE** in 19 trials on **LEAVES** and in 6 trials on **PLANT**. The tested product effectively controlled the disease (83,2% and 84,6% respectively) and a similar or better level in comparison to the reference products – **E**;
- against *Erysiphe graminis* **ERYSGR** in 8 trials on **LEAVES** and in 2 trials on **PLANT**. The tested product effectively controlled the disease (88,1% and 90,2% respectively) and a better level in comparison to the reference products – **E**;
- against *Rhynchosporium secalis* **RHYNSE** in 12 trials on **LEAVES** and in 7 trials on **PLANT**. The tested product effectively controlled the disease (87,3% and 83,5% respectively) and a similar or better

level in comparison to the reference products – E

The Applicant presented only two trials for control of *Ramularia collo-cygni* a major disease of spring barley. In this case the acceptable number of trials should be at least 6 or 5 (if efficacy results in those trials are coherent (on similar level)). Data for control of *Ramularia collo-cygni* on spring barley are not sufficient to evaluate efficacy.

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

According to DAR B.3.1.6

Azoxystrobin has a novel mode of action and as trials till now show does not seem to fall into the same cross-resistance group as any other site specific fungicide where ~~resistance~~ resistance has been previously documented. Azoxystrobin acts at a specific site of organism, viz bc 1 cytochrome complex, blocking electron transport and thus depriving the organism of its energy source. The selective responses of target populations following the introduction of azoxystrobin will be influenced by the strength of the selection pressure imposed and genetic capability of the target pathogen to respond to the selection pressure. One strategy to minimize the development of resistance and reduce selection pressures on organisms treated with azoxystrobin is to spray azoxystrobin in the rotation or alternation with other fungicides from different cross-resistance groups. Several studies on cereal powdery mildews utilizing the field application of mixtures or alternations of DMI's with morpholines or mainopyrimidine fungicides have shown the benefit of this approach.

Experimental data regarding the influence of dose rate on selection pressure are less convincing though there is evidence to support the thesis that where the selective response is quantitative, (as it is with strobilurins in yeast) more frequent applications of lower doses favour resistance development. Recommendations on use rate and timing have been made based on this evidence.

The use of disease resistant crop varieties and appropriate agronomic and hygienic practices such as crop rotation and removal of diseased parts of perennial crop plants are also valuable anti-resistance measures.

According to information available on the website: <https://www.frac.info/fungicide-resistance-management> Azoxystrobin belongs to Group 11, Chemical Group: methoxy-acrylates.

General Use Recommendations (all Crops)
(Updated June 2020 to include FRAC Code Group 11A)

Strategies for the management of QoI fungicide resistance, in all crops, are based on the statements listed below. These statements serve as a fundamental guide for the development of local resistance management programs.

Resistance management strategies have been further enhanced in order to be proactive and to prevent the occurrence of resistance to QoI fungicides developing in other areas and pathogens. Specific guidelines by crop follow the general guidelines given here.

A fundamental principle that must be adhered to when applying resistance management strategies for QoI fungicides is that:

The QoI fungicides (azoxystrobin, coumoxystrobin, dimoxystrobin, enoxastrobin, famoxadone, fenamidone, fenaminostrobin, fluoxastrobin, flufenoxystrobin, kresoxim-methyl, mandestrobin, metominostrobin, oryastrobin, pyraoxystrobin, picoxystrobin, pyraclostrobin, pyrametastrobin, pyribencarb, triclopyricarb, trifloxystrobin) are in the same cross-resistance group; FRAC Code 11.

The QoI fungicide in subgroup A (metyltetraprole), Code 11A fungicide, is not cross resistant with Code 11 fungicides on the pathogens with G143A mutation.

Fungicide programmes must deliver effective disease management. Apply QoI fungicide based products

at effective rates and intervals according to manufacturers' recommendations. Effective disease management is a critical component to delay the build-up of resistant pathogen populations.

The number of applications of QoI fungicide based products within a total disease management program must be limited whether applied solo or in mixtures with other fungicides. This limitation is inclusive to all QoI fungicides. Limitation of QoI fungicides within a spray programme provides time and space when the pathogen population is not influenced by QoI fungicide selection pressure.

Limitation of the total number of QoI applications is detailed in the specific crop recommendations. In consideration of the cross-resistance profile of subgroups 11 and 11A, the maximum allowed number of QoI-containing sprays is increased by one, where both QoI fungicides (code 11) and QoI fungicides in subgroup A (code 11A) are included in a spray program in a given cropping season. All crop-specific recommendations will be regularly reviewed based on sensitivity monitoring.

A consequence of limitation of QoI fungicide based products is the need to alternate them with effective fungicides from different cross-resistance groups (refer to the specific crop recommendations).

QoI fungicides, containing only the solo product, should be used in single or block applications in alternation with fungicides from a different cross-resistance group. Specific recommendation on size of blocks is given for specific crops.

QoI fungicides, applied as tank mix or as a co-formulated mixture with an effective mixture partner, should be used in single or block applications in alternation with fungicides from a different cross-resistance group. Specific recommendations on size of blocks are given for specific crops.

Mixture partners for QoI fungicides should be chosen carefully to contribute to effective control of the targeted pathogen(s). The mixture partner must have a different mode of action, and in addition it may increase spectrum of activity or provide needed curative activity. Use of mixtures containing only QoI fungicides (including two-way mixtures of code 11 fungicide and code 11A fungicide) must not be considered as an anti-resistance measure.

Where local regulations do not allow mixtures, then strict alternations with non-cross resistant fungicides (no block applications) are necessary.

An effective partner for a QoI fungicide is one that provides satisfactory disease control when used alone on the target disease.

QoI fungicides are very effective at preventing spore germination and should therefore be used at the early stages of disease development (preventive treatment).

The mode of action of prothioconazole is stated to be demethylation inhibition (DMI). Resistance to DMI fungicides has been found for several pathogens including *Erysiphe graminis tritici*. The applicant considers the risk of resistance developing is high for powdery mildew, moderate for leaf spots (*Septoria tritici*, *Pyrenophora teres*, *Rhynchosporium secalis*) and eyespot (*Pseudocercospora herpotrichoides*) for DMI fungicides including prothioconazole. A series of sensitivity studies has been carried out throughout Europe to establish the baseline sensitivity of cereal mildew, net blotch, leaf spot and eyespot. In addition a study was conducted to demonstrate crossresistance between prothioconazole and a DMI fungicide tebuconazole for a range of cereal diseases. Prothioconazole could be applied as a seed treatment and as a foliar spray to the same crop. However, the dose of prothioconazole applied in the seed treatment is low and would not be expected to produce significant selection of less sensitive strains of leaf, stem and ear diseases of cereals proposed for the spray formulation. *Fusarium* is the only pathogen targeted by both the foliar spray and seed treatment. There is no evidence of resistance developing in the target organism. In addition, *Fusarium* species are considered to be low risk pathogens. This is because they affect crops late in the season and they are unlikely to be the target of more than one spray of a DMI fungicide.

According to information available on the website: <https://www.frac.info/fungicide-resistance-management> Prothioconazole belongs to group 3, Chemical Group: triazolinthiones

General Use Recommendations (all Crops)

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 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, 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.

Comments of zRMS:	<p>Prothioconazole belongs to the chemical group of triazolinthiones and it is an inhibitor of ergosterol biosynthesis (SBI – Sterol Biosynthesis Inhibitors). According to Fungicide Resistance Action Committee active substance prothioconazole (DMI fungicides class, FRAC group – G1 DMI) belongs to the group of fungicides that present a medium risk for resistance development. Prothioconazole inhibit the C14 demethylation step within fungal sterol biosynthesis. All DMIs inhibit fungi by interacting with the same target site, C14-demethylase and are therefore considered to be cross-resistant with each other. In 2019, the sensitivity of the crop fungal pathogens populations for wheat and oilseed rape were overall stable on European level and slightly higher compared to 2018 in some geographies but overall in the range of previous years [Minutes from Annual Meeting on January 24th, 2020, 08:00 - 16:00, Protocol of the discussions and recommendations of the SBI working group of the Fungicide Resistance Action Committee (FRAC); updated on September 23rd during the virtual SBI WG meeting].</p> <p>The resistance management for prothioconazole is coordinated by the FRAC SBI Working Group.</p> <p>Approved general resistance management tools for fungicides are as follows:</p> <ul style="list-style-type: none"> • use resistant crop varieties, good agronomic practice, plant hygiene/sanitation • use alternately fungicides with different modes of action, when fungicides is used more often than one treatment per season. • repeated application of fungicides alone should not be used on the same crop in one season against a high-risk pathogen (e.g. cereal powdery mildews, barley net blotch, scald) in areas of high disease pressure for that particular pathogen. • 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.
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	<p>Azoxystrobin belongs to Group 11, Chemical Group: methoxy-acrylates. According to Fungicide Resistance Action Committee active substance Azoxystrobin belongs to the group of fungicides that present a high risk for resistance development. In accordance with “Protocol of the discussions and use recommendations of the QoI Working Group of the Fungicide Resistance Action Committee” (meeting in 2020), the performance of QoI containing products within spray programmes was good. It continues to be essential to use non-cross resistant mixture partners (e.g. SBIs, multisites) to ensure robust disease management.</p> <p>Guidelines for using QoI fungicides on cereal crops.</p> <ul style="list-style-type: none"> • Apply QoI fungicides always in mixtures with non-cross resistant fungicides to control cereal pathogens. At the rate chosen the respective partner(s) on its/ their own has/ have to provide effective disease control. Refer to manufacturers recommendations for rates. • Apply a maximum of 2 QoI fungicide containing sprays per cereal crop. Limiting the number of sprays is an important factor in delaying the build-up of resistant pathogen populations. • Apply QoI fungicides according to manufacturers recommendations for the target disease (or complex) at the specific crop growth stage indicated. • Apply the QoI fungicide preventively or as early as possible in the disease cycle. Do not rely only on the curative potential of QoI fungicides. • Split/reduced rate program, using repeated applications, which provide continuous selection pressure, accelerate the development of resistant populations and therefore must not be used.
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3.4 Adverse effects on treated crops (KCP 6.4)

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

Table 3.4-1: Presentation of trials selectivity-efficacy/phytotoxicity trials

Crop*	Country	Type of trial**	Number of trials	Years	GEP, non-GEP, official***	Comments (any other relevant information)
			North-East/Maritime Zone			
winter wheat	Poland	S+ Y + Q	13	2019	GEP	-
	Czech Republic	S+ Y + Q	8	2019	GEP	-
	Poland	S+ Y + Q	10	2020	GEP	-
	Czech Republic	S+ Y + Q	4	2020	GEP	-
	Germany	S+ Y + Q	8	2020	GEP	-
winter triticale	Poland	S+ Y + Q	5	2019	GEP	-
	Czech Republic	S+ Y + Q	4	2019	GEP	-
	Poland	S+ Y + Q	17	2020	GEP	-
	Czech Republic	S+ Y + Q	3	2020	GEP	-
	Germany	S+ Y + Q	8	2020	GEP	-
spring barley	Poland	S+ Y + Q	8	2019	GEP	-
	Czech Republic	S+ Y + Q	5	2019	GEP	-
	Poland	S+ Y + Q	15	2020	GEP	-
	Czech Republic	S+ Y + Q	4	2020	GEP	-
	Germany	S+ Y + Q	5	2020	GEP	-
	Poland	S+ Y + Q	4	2021	GEP	-

winter oilseed rape	Poland	S+ Y + Q	4	2019	GEP	!
	Czech Republic	S+ Y + Q	2	2019	GEP	!
	Poland	S+ Y + Q	6	2020	GEP	!
	Czech Republic	S+ Y + Q	3	2020	GEP	!
	Germany	S+ Y + Q	4	2020	GEP	!
TOTAL	!	!	144	!	!	!

* 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

Table 3.4-2: Presentation of reference standards used in selectivity-efficacy/phytotoxicity trials.

Crop(s)	Reference standard	Country(ies) where the product is registered ⁽¹⁾	Authorization number	Active substance(s)	Formulation		Registered application rate ⁽³⁾	Application rate in trials (per treatment)	Remark ⁽⁴⁾
					Type ⁽²⁾	Concentration of a.s.			
winter wheat, winter triticale, spring barley, winter oilseed rape	Makler 250 SE	Poland	R-207/2019 02.11.2017; R-199/2019d 07.03.2019	azoxystrobin	SE - Suspo-Emulsion	250 g/l	1,0 l/ha	1,0 l/ha	!
winter wheat, winter triticale, spring barley, winter oilseed rape	Azoxin 250 SE	Poland	R-205/2019 27.11.2017; R-200/2019d 07.03.2019	azoxystrobin	SE - Suspo-Emulsion	250 g/l	1,0 l/ha	1,0 l/ha	!
winter wheat, winter triticale	Delaro 325 S.C.	Poland	R-18/2016wu 20.05.2016; R-353/2017d 14.07.2017	prothioconazole	SC - Suspension concentrate	175 g/l	1,0 l/ha	1,0 l/ha	!
				trifloxystrobin		150 g/l			
winter oilseed rape	Toledo Extra 430 SC	Poland	R-175/2016 19.08.2019; R-696/2018d 30.11.2018	tebuconazole	SC - Suspension concentrate	430 g/l	0,75 l/ha	0,75 l/ha	!
spring barley	Elatus Era	Poland	R-229/2017 17.11.2017	benzowindylupyr	EC - Emulsifiable concentrate	75 g/l	1,0 l/ha	1,0 l/ha	!
				prothioconazole		150 g/l			
spring barley	Fandango 200 EC	Poland	R-10/2011 27.01.2011	fluoxastrobin	EC - Emulsifiable concentrate	100 g/l	1,0 l/ha	1,0 l/ha	!
				prothioconazole		100 g/l			
spring barley	Tazer 250 SC	Poland	R-48/2015 05.03.2015	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	!
spring barley	Delaro 325 S.C.	Czech Republic	no data	prothioconazole	SC - Suspension concentrate	175 g/l	0,75 l/ha	0,75 l/ha	!
				trifloxystrobin		150 g/l			
spring barley	Amistar	Czech Republic	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	0,8-1,0 l/ha	0,8-1,0 l/ha	!
spring barley	Proline	Germany	no data	prothioconazole	EC - Emulsifiable	250 g/l	0,8 l/ha	0,8 l/ha	!

					concentrate				
spring barley	Azbany	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
spring barley	Elatus Era	Czech Republic	no data	benzowindylupyr prothioconazole	EC - Emulsifiable concentrate	75 g/l 150 g/l	1,0 l/ha	1,0 l/ha	↓
spring barley	Amistar	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter wheat	Delaro 325 S.C.	Czech Republic	no data	prothioconazole trifloxystrobin	SC - Suspension concentrate	175 g/l 150 g/l	1,0 l/ha	1,0 l/ha	↓
winter wheat	Amistar	Czech Republic	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter wheat	Proline	Germany	no data	prothioconazole	EC - Emulsifiable concentrate	250 g/l	0,8 l/ha	0,8 l/ha	↓
winter wheat	Amistar	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter wheat	Azbany	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter wheat	Torero	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter tritcale	Delaro 325 S.C.	Czech Republic	no data	prothioconazole trifloxystrobin	SC - Suspension concentrate	175 g/l 150 g/l	1,0 l/ha	1,0 l/ha	↓
winter tritcale	Amistar	Czech Republic	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter tritcale	Proline	Germany	no data	prothioconazole	EC - Emulsifiable concentrate	250 g/l	0,8 l/ha	0,8 l/ha	↓
winter tritcale	Amistar	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter tritcale	Input Classic	Germany	no data	prothioconazole spiroxamine	EC - Emulsifiable concentrate	160 g/l 300 g/l	1,25 l/ha	1,25 l/ha	↓
winter tritcale	Azbany	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter tritcale	Torero	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter oilseed rape	Tilmor 240 EC	Czech Republic	no data	prothioconazole tebuconazole	EC - Emulsifiable concentrate	80 g/l 160 g/l	1,0 l/ha	1,0 l/ha	↓
winter oilseed rape	Amistar	Czech Republic	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter oilseed rape	Proline	Germany	no data	prothioconazole	EC - Emulsifiable concentrate	250 g/l	0,7 l/ha	0,7 l/ha	↓
winter tritcale	Ortiva	Germany	no data	azoxystrobin	SC - Suspension concentrate	250 g/l	1,0 l/ha	1,0 l/ha	↓
winter oilseed rape	Propulse	Germany	no data	prothioconazole	SE - Suspo- Emulsion	125 g/l	1,0 l/ha	1,0 l/ha	↓

				fluopyram		125 g/l			
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- (1) only on use(s) applied for (with the test product)
- (2) e.g. WP (wetable powder), EC (emulsifiable concentrate), etc.
- (3) Dose / dose range authorized in the country
- (4) Other relevant information (e.g. uses, number of applications, spray volume, method of application...)

3.4.1 Phytotoxicity to host crop (KCP 6.4.1)

Materials and methods

The applicant submitted 144 reports (in total) showing the results in research into product selectivity carried out in 2019, 2020 and 2021 in winter wheat (43 trial) winter triticale (39 trial), spring barley (41 trial) and winter oil seed rape (21 trial). List of these reports is contained in Appendix 1

Site

Trials were conducted in different regions in Poland, Czech Republic and Germany where winter wheat, spring barley, winter triticale and winter oilseed rape are grown commercially. The experiment was established on a set of complete randomized blocks in 4 replications. Details on trial sites, applications and data on effectiveness are included in Appendix 4 and 5

Testing units

Efficacy and Selectivity studies on herbicide CHR/F/PROTAZO were performed in 2019, 2020, 2021 by:

- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland
- Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland
- SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic
- ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic
- SynTech Research Germany, Loofter Str. 9, 25593 Christinenthal, Germany
- Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany
- ZS Krásné Údolí, Krásné Údolí 141, 364 01 Toužim, Czech Republic
- Zkušební stanice Rýmařov, s.r.o., 8.května 61, 795 01 Rýmařov, The Czech Republic
- Zkušební stanice Kluky spol. s r.o. 398 19 Kluky/Pisek, Czech Republic

Experimental details

The efficacy trials were designed, conducted and reported according to the following EPPO guidelines:

- PP 1/135 (3) Phytotoxicity assessment
- PP 1/152 (3) Design and analysis of efficacy evaluation trials
- PP 1/181 (3) Conduct and reporting of efficacy evaluation trials including good experimental practice
- PP 1/78(3) Root, stem, foliar and pod diseases on oilseed rape
- PP 1/26(4) Foliar and ear diseases on cereals
- PP 1/28(3) Eyespot of cereals

Assessment methods

Statistical Analysis

The treatment means of the assessment dates were calculated and compared using Student-Newman-Keuls test ($P=0.05$).

The statistical procedures were applied using ARM 2019.8 software

Assessment of efficacy

Efficacy was recorded by estimation and counting of severity of disease. The level of infection was assessed on 10 randomly selected plants (part rated – tiller).

Assessment of efficacy in winter oilseed rape

Efficacy was recorded by estimation and counting of severity of disease. The level of infection was assessed on 25 randomly selected plants.

Assessment infection of SCLESC on stems in five classes (0-4)

Class 0: no infection

Class 1: <50% infection

Class 2: >50% infection but strength of stem unaffected

Class 3: >50% infection, stem weakened

Class 4: death

Assessment infection of PSDCHE, FUSASP on stems in five classes (0-4) Stem diseases:

Efficacy was recorded by estimating and counting the severity and incidence of disease. The level of infection was assessed on 25 ear-bearing tillers randomly selected from each plots.

To assess the degree of stem infestation, a 4-point scale (I-IV classes) was used, in which:

Class I: Healthy: no symptoms

Class II: Slight lesions: less than 50% of tiller circumference attacked at place where infection is most severe

Class III: Moderate lesions: more than 50% of tiller circumference attacked at place where infection is most severe, but tissue still firm

Class IV: Severe lesions: 100% of tiller circumference attacked with tissue rotted (softening)

In addition to the single values for each of the four classes (I-IV), a total damage value (index) was calculated by used, the following formula:

$$index = \frac{(n(I) * 0,25) + (n(II) * 0,75) + (n(IV))}{n(I + II + III + IV)}$$

Assessment of phytotoxicity

Phytotoxicity were assessed by visual estimation of the intensity on an overall plot basis on a percentage scale 0-100 % (0=no damage).

Harvest and qualitative analysis

The crop is harvested with a combine harvester from the central part of each plot. Sample for each plots analyzed on on the FOSS Infratec 1241 grain analyzer

Applications methods and rates

The applications were carried out by a T-BOOM – BACCAI, plot sprayer – BACSPR, plot sprayer BICSPR, Schachtner – SPRBIC, knapsack "Gloria".

Tested fungicide was applied at spring in the growth stage:

- winter wheat: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,
- winter triticale: once per season at BBCH 25-69 or twice per season at A: BBCH 31-39, B: BBCH 49-59,
- spring barley: once per season at BBCH 49-51 or twice per season at A: BBCH 29-37, B: BBCH 49-59,
- winter oilseed rape: once per season at BBCH 59-69.

The product CHR/F/PROTAZO has been used:

in winter wheat at the following rates of 0,8, 0,9, 1,0 L/ha

in winter triticale at the following rates of 0,8, 0,9, 1,0 L/ha

in spring barley at the following rates of 0,8, 0,9, 1,0 L/ha

in winter oilseed rape at the following rates of 0,8, 0,9, 1,0 L/ha

Delaro 325 SC, Makler 250 SE, Azoxin 250 SE were used as a reference product in winter wheat, winter triticale.

Amistar, Proline, Azbany, Torero were used as a reference product in winter wheat.

Amistar, Proline, Input Classic, Azbany, Torero were used as a reference product in winter triticale.

Makler 250 SE, Azoxin 250 SE, Elatus Era 225 EC, Fandango 200 EC, Tazer 250 S.C., Delaro 325 S.C.,

Amistar, Proline, Azbany were used as a reference product in spring barley.

Makler 250 SE, Toledo Extra 430 S.C., Tilmor 240 EC, Amistar, Proline, Ortiva, Propulse were used as a reference product in winter oilseed rape.

The experiment was established on a set of complete randomized blocks in 4 replications.

Experiment pattern:

Winter wheat once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A	BBCH 25-69
3	CHR/F/PROTAZO 375 SC	0,9	A	BBCH 25-69
4	CHR/F/PROTAZO 375 SC	1,0	A	BBCH 25-69
5	Delaro 325 SC	1,0	A	BBCH 30-69
6	Makler 250 SE	1,0	A	BBCH 30-65

Winter wheat twice per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A, B	A=BBCH 31-39 B= 49-59
3	CHR/F/PROTAZO 375 SC	0,9	A, B	A=BBCH 31-39 B= 49-59
4	CHR/F/PROTAZO 375 SC	1	A, B	A=BBCH 31-39 B= 49-59
5	Delaro 325 SC	1	A	A=BBCH 32-39 B= 49-55
6	Makler 250 SE	1	A	A=BBCH 31-39 B= 49-59

Winter triticale once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A	BBCH 25-69
3	CHR/F/PROTAZO 375 SC	0,9	A	BBCH 25-69
4	CHR/F/PROTAZO 375 SC	1,0	A	BBCH 25-69
5	Delaro 325 SC	1,0	A	BBCH 32-69
6	Makler 250 SE	1,0	A	BBCH 30-65

Winter triticale twice per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A, B	A:BBCH 31-39 B:BBCH 49-59
3	CHR/F/PROTAZO 375 SC	0,9	A, B	A:BBCH 31-39 B:BBCH 49-59
4	CHR/F/PROTAZO 375 SC	1	A, B	A:BBCH 31-39 B:BBCH 49-59
5	Delaro 325 SC	1	A, B	A:BBCH 32-39 B:BBCH 49-55
6	Makler 250 SE	1	A, B	A:BBCH 31-39 B:BBCH 49-59

Spring barley once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,6	A	BBCH 49-51
3	CHR/F/PROTAZO 375 SC	0,8	A	BBCH 49-51
4	CHR/F/PROTAZO 375 SC	1	A	BBCH 49-51
5	Fandango 200 EC	1	A	BBCH 49-51
6	Tazer 250 S.C.	1	A	BBCH 49-51

Spring barley twice per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,6	A, B	A: BBCH 29-37; B: BBCH 49-59
3	CHR/F/PROTAZO 375 SC	0,8	A, B	A: BBCH 29-37; B: BBCH 49-59
4	CHR/F/PROTAZO 375 SC	1	A, B	A: BBCH 29-37; B: BBCH 49-59
5	Elatus Era 225 EC	1	A	BBCH 31-37
6	Makler 250 SE	1	A, B	A: BBCH 30-37; B: BBCH 49-59

Winter oilseed rape once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/PROTAZO 375 SC	0,8	A	BBCH 59-69
3	CHR/F/PROTAZO 375 SC	0,9	A	BBCH 59-69
4	CHR/F/PROTAZO 375 SC	1,0	A	BBCH 59-69
5	Toledo Extra 430 SC	0,75	A	BBCH 59-69
6	Makler 250 SE	1,0	A	BBCH 59-65

Details of experiments

Winter wheat Poland 2019 a

Report code	A.T/2019/028/PO	A.T/2019/029/PO	A.T/2019/030/PO	A.T/2019/031/PO	SRPL19-136-336FE	SRPL19-137-336FE	SRPL19-138-336FE
Location	Brzeźno / Poland	Wilcze / Poland	Kakulin / Poland	Ślawęcin / Poland	Żnin / Poland	Łęgajny / Poland	Mrówino / Poland
Plant/cultivar	Winter wheat / Arkadia	Winter wheat / Arkadia	Winter wheat / Arkadia	Winter wheat / Hondia	winter wheat / Tonacja	Winter wheat / Arkadia	Winter wheat / Jantarka
Seeding date	30.09.2018	18.09.2018	30.09.2018	15.09.2018	15.09.2018	20.09.2018	19.09.2018
Seeding rate	160 kg/ha	200 kg/ha	170kg/ha	180kg / ha	220 kg/ha	220 kg/ha	200kg/ha
Forecrop	winter oilseed rape	winter oilseed rape	winter oilseed rape	winter oilseed rape	winter wheat	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	T-BOOM	BACCAI	BACSPR
Date of treatment A	17.05.2019	22.05.2019	04.06.2019	07.06.2019	26.04.2019	27.04.2019	22.04.2019
Date of treatment B	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 39-41	BBCH 45-47	BBCH 61-65	BBCH 61-65	BBCH 30-31	BBCH 30-31	BBCH 31-32
Plant development phase B	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	loamy sand	sandy loam	loamy sand	loamy sand	clayey sand	sandy loam	sandy clay loam
pH	6,1	6,3	5,7	5,1	6,3	5	6,9
Water (l/ha) A; B; C	200	200	200	200	300	200	200
Plot size	2,5x10=25m2	2,5x8=20 m2	2,5X8=20n2	2,5x10=25m2	3x7=21m2	3x8=24m2	3x8=24m2

Winter wheat Poland 2019 b

Report code	SRPL19-139-336FE	SRPL19-140-336FE	SRPL19-141-336FE	SRPL19-144-336FE	SRPL19-143-336FE	SRPL19-146-336FE
Location	Krasienin / Poland	Turze / Poland	Niemce / Poland	Gietrzwałd / Poland	Pokrzywno / Poland	Jankowice Wilekie / Poland
Plant/cultivar	Winter wheat / Sailor	Winter wheat / Linus	Winter wheat / Jantarka	Winter wheat / Delawar	Winter wheat / Arkadia	Winter wheat / Patras
Seeding date	26.09.2018	25.09.2018	18.09.2018	18.09.2018	20.09.20218	12.11.2018
Seeding rate	200 kg/ha	190 kg/ha	220 kg/ha	190 kg/ha	200kg/ha	170 kg/ha
Forecrop	winter triticale	sugar beet	spring barley	winter wheat	sugar beet	sugar beet
Type of sprayer	BACSPR	T-BOOM	BACSPR	BACCAI	T-BOOM	T-BOOM
Date of treatment A	26.04.2019	20.05.2019	11.06.2019	04.05.2019	04.05.2019	10.05.2019
Date of treatment B	n/a	n/a	n/a	30.05.2019	30.05.2019	31.05.2019
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 30-32	BBCH 47-49	BBCH 61-69	BBCH 37	BBCH 35-36	BBCH 35-36
Plant development phase B	n/a	n/a	n/a	BBCH 55-57	BBCH 56-59	BBCH 57-59
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	sandy loam	Clay loam	sandy clay loam	sandy loam	clay loam	loamy sand
pH	6,9	6,5	6,87	5,2	6,7	6,9
Water (l/ha) A; B; C	300	200	300	200	200	300
Plot size	3x7=21m2	3x8=24m2	3x8=24m2	3x7=21m2	3x7=21m2	3x6=18m2

Winter wheat Czech Republic 2019

Report code	SRCZ19-022-301FE	SRCZ19-024-301FE	SRCZ19-023-301FE	SRCZ19-025-301FE	SRCZ19-026-301FE	SRCZ19-029-301FE	SRCZ19-027-301FE	SRCZ19-030-301FE
Location	Sekerkovy Loučky / Czech Republic	Lukavice / Czech Republic	Lukavice / Czech Republic	Lustenice / Czech Republic	Sekerkovy Loučky/ Czech Republic	Horní Kounice / Czech republic	Březina / Czech Republic	Příložíany / Czech Republic
Plant/cultivar	Winter wheat / Avenue	Winter wheat / Pannonia	Winter wheat / Pannonia	Winter wheat / Amandus	Winter wheat / Avenue	winter wheat / Gordian	Winyter wheat / Butterfly	Winter wheat / Patras
Seeding date	15.09.2018	27.09.2018	27.09.2018	09.10.2018	24.09.2018	27.09.2018	20.10.2018	25.10.2018
Seeding rate	190 kg/ha	210 kg/ha	210 kg/ha	180 kg/ha	190 kg/ha	220 kg/ha	180kg/ha	190 kg/ha
Forecrop	winter wheat	Winter wheat	no data	sunflower	winter wheat	winter wheat	winter oilseed rape	maize
Type of sprayer	BACSPR	BACSPR	BACSPR	BACSPR	BACSPR	BACCAI	BACCAI	BACCAI
Date of treatment A	15.04.2019	20.04.2019	20.04.2019	22.04.2019	27.05.2019	07.06.2019	17.05.2019	17.06.2019
Date of treatment B	n/a	n/a	n/a	n/a	n/a	n/a	06.06.2019	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 28-31	BBCH 30-31	BBCH 30-31	BBCH 30-31	BBCH 45-47	BBCH 61-67	BBCH 37-41	BBCH 67-71
Plant development phase B	n/a	n/a	n/a	n/a	n/a	n/a	BBCH 57-59	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	loam	loam	loam	sandy loam	loam	loamy sand	loam	loamy sand
pH	6,3	5,9	5,9	7,0	6,4	6,1	5,8	6,5
Water (l/ha) A; B; C	225	225	225	225	225	300	225	300
Plot size	3x7=21m2	3x7=21m2	3x7=21m2	3x7=21m2	3x7=21m2	2,5x9=22,5m2	3x7=21m2	2,5x8=20m2

Winter wheat Poland 2020 a

Report code	A.T/2020/009/PO	A.T/2020/010/PO	A.T/2020/011/PO	A.T/2020/012/PO	A.T/2020/013/PO
Location	Rybowo / Poland	Wilcze / Poland	Stęszew / Poland	Lulkowo / Poland	Gołańcz / Poland
Plant/cultivar	Winter wheat / Arkadia	Winter wheat / Medalistka	Winter wheat / Euforia	Winter wheat / RGT Reform	Winter wheat / Arkadia
Seeding date	27.09.2019	17.09.2019	27.09.2019	20.09.2019	27.09.2019
Seeding rate	180 kg/ha	200 kg/ha	260 kg/ha	135 kg/ha	180 kg / ha
Forecrop	winter triticale	winter wheat	winter wheat	winter wheat	winter triticale
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment A	17.03.2020	17.03.2020	16.03.2020	16.03.2020	06.04.2020
Date of treatment B	07.04.2020	07.04.2020	08.04.2020	08.04.2020	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 25-30	BBCH 28-30	BBCH 28-30	BBCH 25-28	BBCH 30-32
Plant development phase B	BBCH 30-32	BBCH 31-32	BBCH 31-32	BBCH 31-32	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a
Soil type	sandy loam	sandy loam	sandy loam	sandy loam	sandy loam
pH	6,0	6,0	7,8	5,8	6,0
Water (l/ha) A; B; C	200	200	200	300	300
Plot size	2,5x9,5=23,75m2	2,5x8=20 m2	2,5x8=20 m2	2,5x10=25m2	2,5x9,5=23,75m2

Winter wheat Poland 2020 b

Report code	AF/20/PO/1/Pr/01	AF/20/PO/1/Zl/02	AF/20/PO/1/Pr/03	AF/20/PO/1/Br/04	AF/20/PO/1/Br/05
Location	Przybroda / Poland	Złotniki / Poland	Przybroda / Poland	Brody / Poland	Brody / Poland
Plant/cultivar	Winter whet / Arkadia	Winter wheat / Bogatka	Winter whet / Arkadia	Winter wheat / Tonacja	Winter wheat / Tonacja
Seeding date	24.09.2019	25.09.2019	24.09.2019	25.09.2019	25.09.2019
Seeding rate	220 kg/ha	133 kg/ha	220 kg/ha	190kg/ha	190 kg/ha
Forecrop	winter wheat	winter oilseed rape	winter wheat	maize	maize
Type of sprayer	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR
Date of treatment A	18.03.2020	18.03.2020	20.05.2020	27.05.2020	09.06.2020
Date of treatment B	07.04.2020	08.04.2020	n/a	n/a	n/a
Date of treatment C	15.04.2020	24.04.2020	n/a	n/a	n/a
Plant development phase A	BBCH 24-26	BBCH 27-29	BBCH 47-51	BBCH 43-47	BBCH 65-71
Plant development phase B	BBCH 29-31	BBCH 28-31	n/a	n/a	n/a
Plant development phase C	BBCH 31-33	BBCH 31-33	n/a	n/a	n/a
Soil type	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	5,8	6,1	5,8	6,7	6,7
Water (l/ha) A; B; C	200	200	200	230	230
Plot size	2x12=24m2	2,5x8=20m2	2x12=24m2	2x9=18m2	2x9=18m2

Winter wheat Czech Republic 2020

Report code	SRCZ20-052-301FE	CHR_F_PROTAZO_EFF20_CZ02	SRCZ20-054-301FE	SRCZ20-055-301FE
Location	Zaječov/Czech Republic	Krasne Udoli/Czech Republic	Všežany/Czech Republic	Tavíkovice/Czech Republic
Plant/cultivar	Winter wheat / Gallus	Winter wheat / Energo	Winter wheat / Hybery	Winter wheat / Tobak
Seeding date	28.09.2019	21.09.2019	20.09.2019	26.09.2019
Seeding rate	220 kg/ha	200 kg/ha	65 kg/ha	220 kg/ha
Forecrop	winter wheat	winter barley	winter oilseed rape	no data
Type of sprayer	BACSPR	SPRAYE	BACSPR	BACCAI
Date of treatment A	11.04.2020	07.05.2020	11.06.2020	04.06.2020
Date of treatment B	n/a	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 30-31	BBCH 31-32	BBCH 65-69	BBCH 55-65
Plant development phase B	n/a	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a
Soil type	loam	sandy loam	loamy clay	loamy clay
pH	6,7	6,2	6,5	6,2
Water (l/ha) A; B; C	225	300	225	300
Plot size	3x6=18m2	3x8,6=25,8 m2	3x6=18m2	2,5x9=22,5m2

Winter wheat Germany 2020

Report code	SRDE20-101-301FE	SRDE20-102-301FE	SRDE20-103-301FE	SRDE20-104-301FE	SRDE20-105-301FE	SRDE20-106-301FE	CHR_F_PROTAZO_EFF5_DE14	CHR_F_PROTAZO_EFF5_DE15
Location	Untergruppenbach /Germany	Neckarwestheim /Germany	Möckmühl-Korb/Germany	Möckmühl-Kressbach /Germany	Möckmühl/Germany	Möckmühl-Korb/Germany	Wittighausen/Germany	Vreden/Germany
Plant/cultivar	Winter wheat / RGT Reform	Winter wheat / RGT Reform	Winter wheat / Barranco	Winter wheat / RGT Reform	Winter wheat / Barranco	Winter wheat / Barranco	Winter wheat / Elise	Winter wheat / Bergamo
Seeding date	28.10.2019	16.10.2019	08.11.2019	06.11.2019	21.10.2019	08.11.2019	14.10.2019	24.10.2019
Seeding rate	280 kg/ha	290 kg/ha	290 kg/ha	290 kg/ha	290 kg/ha	290 kg/ha	170 kg/ha	320 seed/m2
Forecrop	winter wheat	sugar beet	winter wheat	potato	winter wheat	winter wheat	maize	maize
Type of sprayer	BACCAI	SPRAYE	SPRAYE	SPRAYE	SPRAYE	SPRAYE	BACSPR	BACSPR
Date of treatment A	24.04.2020	24.04.2020	23.04.2020	23.04.2020	18.05.2020	19.06.2020	29.05.2020	28.05.2020
Date of treatment B	n/a	n/a	n/a	n/a	01.06.2020	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 25-28	BBCH 25-28	BBCH 25-28	BBCH 25-28	BBCH 31-34	BBCH 61-69	BBCH 65	BBCH 61
Plant development phase B	n/a	n/a	n/a	n/a	BBCH 49-59	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	silty clay loam	silty san	silty clay	silty clay loam	silty clay	silty clay	loam	sand
pH	6,4	7,2	6,5	6,9	6,5	6,5	7,3	4,8
Water (l/ha) A; B; C	300	300	300	300	300	300	300	300
Plot size	3x8=24m2	3x8=24m2	3x8=24m2	3x8=24m2	2,5x10=25m2	3x8=24m2	2,5x9=22,5m2	1,5x10=15m2

Winter triticale Poland 2019

Report code	SRPL19-142-336FE	SRPL19-143-336FE	A.T/2019/032/PZO	A.T/2019/033/PZO	A.T/2019/034/PZO
Location	Wola Kalkowa/Poland	Znin / Poland	Chojnice / Poland	Nowe Gronowo / Poland	Chojnice / Poland
Plant/cultivar	Winter triticale /Borowik	Winter triticale / Grenado	Winter triticale / Meloman	Winter triticale / Aveo	Winter triticale / Meloman
Seeding date	17.09.2018	17.09.2018	17.09.2018	24.09.2018	17.09.2018
Seeding rate	200 kg/ha	220 kg/ha	160 kg/ha	180 kg/ha	160 kg/ha
Forecrop	maize	spring barley	winter wheat	rye	winter wheat
Type of sprayer	BACCAI	BICCAI	BICCAI	BACCAI	BICCAI
Date of treatment A	06.05.2019	26.04.2019	07.05.2019	01.05.2019	04.06.2019
Date of treatment B	n/a	n/a	n/a	22.05.2019	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 34-36	BBCH 31-32	BBCH 39-41	BBCH 33-37	BBCH: 61-65
Plant development phase B	n/a	n/a	n/a	BBCH 54-56	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a
Soil type	clayey sand	clayey sand	loamy sand	sand	loamy sand
pH	6,3	6,3	5,8	4,9	5,8
Water (l/ha) A; B; C	300	300	200	200	200
Plot size	3x8=24m2	3x7=21m2	2,5x10 = 25m2	2,5x8=20m2	2,5x10 = 25m2

Winter triticale Czech Republic 2019

Report code	CZOR-SYT19-TTLSS-030RYM	CZOR-SYT19-TTLSS-051NEC	CHR_F_PROTAZO_CZ11	CZOR-SYT19-TTLSS-031RYM
Location	Rymarov / Czech Republic	Nechanice / Czech Republic	Stachy-Chalupy/ Czech Republic	Rymarov / Czech Republic
Plant/cultivar	Winter triticale / Modus	winter triticale / Cedrico	winter triticale /Cappricia	winter triticale /Triamant
Seeding date	15.10.2018	17.10.2018	25.09.2018	15.10.2018
Seeding rate	220 kg/ha	210 kg/ha	245 kg/ha	220 kg/ha
Forecrop	Lupine	pea	winter wheat	Lupine white
Type of sprayer	BICCAI	BICCAI	BICCAI	SPRAYE
Date of treatment A	25.05.2019	21.05.2019	23.05.2019	20.06.2019
Date of treatment B	n/a	10.06.2019	12.06.2019	n/a
Date of treatment C	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 39-41	BBCH 39	BBCH 31-32	BBCH 61
Plant development phase B	n/a	BBCH 59-61	BBCH 55-59	n/a
Plant development phase C	n/a	n/a	n/a	n/a
Soil type	sandy loam	sandy clay loam	loamy sand	sandy loam
pH	6,4	6,3	5,5	6,4
Water (l/ha) A; B; C	300	200	300	300
Plot size	1,375x14,54=19,9925 m2	2,7x9=24,3m2	2x10=20m2	1,375x14,54=19,9925 m2

Winter triticale Poland 2020 a

Report code	A.T/2020/014/PZO	A.T/2020/015/PZO	A.T/2020/016/PZO	A.T/2020/017/PZO	A.T/2020/018/PZO	A.T/2020/019/PZO	A.T/2020/020/PZO	A.T/2020/021/PZO
Location	Stęszew / Poland	Kamień Krajeński / Poland	Łysomice / Poland	Sierpc / Poland	Sępólno Krajeńskie / Poland	Drobin / Poland	Stęszew / Poland	Sierpc / Poland
Plant/cultivar	Winter triticale / Orinoko	Winter triticale / Fredro	Winter triticale / Rotondo	Winter triticale / Panteon	Winter triticale / Porto	Winter triticale / Rotondo	Winter triticale / Orinoko	Winter triticale / Panteon
Seeding date	23.09.2019	16.09.2019	21.09.2019	21.09.2019	15.09.2019	21.09.2019	23.09.2019	21.09.2019
Seeding rate	150 kg/ha	180kg/ha	165 kg/ha	200 kg/ha	140 kg/ha	140 kg/ha	150 kg/ha	200 kg/ha
Forecrop	Winter wheat	oat	Winter wheat	spring barley	winter rye	winter oilseed rape	Winter wheat	spring barley
Type of sprayer	BICCAI	BACCAI	BACCAI	BACCAI	BICCAI	BICCAI	BICCAI	BICCAI
Date of treatment A	17.03.2020	17.03.2020	07.04.2020	08.04.2020	09.04.2020	15.05.2020	08.05.2020	28.05.2020
Date of treatment B	n/a	07.04.2020	05.05.2020	06.05.2020	n/a	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 28-32	BBCH 25-30	BBCH 31-32	BBCH 31-32	BBCH 31-32	BBCH 37-41	BBCH 37-39	BBCH 55-59
Plant development phase B	n/a	BBCH 31-32	BBCH 49-51	BBCH 45-49	n/a	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Soil type	loamy sand	loamy sand	sandy loam	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand
pH	7,1	5	5,7	5	5,2	6,2	7,1	5
Water (l/ha) A; B; C	200	200	A:200; B:200	A:200; B:200	300	200	300	300
Plot size	2,5x7=17,5m2	2,5x7,5=18,75m2	2,5x10 = 25m2	2,5x8,5=21,25m2	2,5x8=20m2	2,5x8=20m2	2,5x7=17,5m2	2,5x9=22,5m2

Winter triticale Poland 2020 b

Report code	AF/20/PszO/1/Pr/01	AF/20/PszO/1/Br/02	AF/20/PszO/1/Pr/03	AF/20/PszO/1/Br/04	AF/20/PszO/1/Zl/05	AF/20/PszO/1/Br/06
Location	Przybroda /Poland	Brody / Poland	Przybroda / Poland	Brody / Poland	Złotniki / Poland	Brody / Poland
Plant/cultivar	Winter triticale / Grenado	winter triticale / Twingo	Winter triticale / Grenado	Winter triticale / Twingo	Winter triticale / Aliko	Winter triticale / Twingo
Seeding date	24.09.2019	24.09.2019	24.09.2018	24.09.2018	26.09.2019	24.09.2019
Seeding rate	175 kg/ha	180 kg/ha	220 kg/ha	180 kg/ha	190 kg/ha	180 kg/ha
Forecrop	winter oilseed rape	maize	winter oilseed rape	maize	winter oilseed rape	maize
Type of sprayer	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR
Date of treatment A	18.03.2020	07.04.2020	18.05.2020	16.05.2020	28.05.2020	29.05.2020
Date of treatment B	07.04.2020	n/a	n/a	n/a	n/a	n/a
Date of treatment C	15.04.2020	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 27-29	BBCH 31-33	BBCH 47-49	BBCH 47-49	BBCH 59-61	BBCH 61-65
Plant development phase B	BBCH 29-31	n/a	n/a	n/a	n/a	n/a
Plant development phase C	BBCH 31-33	n/a	n/a	n/a	n/a	n/a
Soil type	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	6	6,7	6	6,7	6,4	6,7
Water (l/ha) A; B; C	200	230	200	230	200	230
Plot size	2x12=24m2	9x2=18m2	24m2	2x9=18 m2	2,5x8=20m2	9x2=18m2

Winter triticale Poland 2020 c

Report code	SRPL2020_404_336_FE	SRPL20-405-336FE	SRPL20-406-336FE
Location	Czeska wieś / Poland	Olszany/Poland	Jankowice Wielkie/ Poland
Plant/cultivar	Winter triticale / Sekret	Winter triticale / Tadeus	Winter triticale / Rotondo
Seeding date	20.09.2019	23.09.2019	30.08.2019
Seeding rate	200 kg/ha	180 kg/ha	150 kg/ha
Forecrop	winter wheat	spring barley	winter oilseed rape
Type of sprayer	BACCAI	BACCAI	BACCAI
Date of treatment A	09.05.2020	10.06.2020	09.06.2020
Date of treatment B	30.05.2020	n/a	n/a
Date of treatment C	n/a	n/a	n/a
Plant development phase A	BBCH 37-41	BBCH 63-67	BBCH 61-69
Plant development phase B	BBCH 57-59	n/a	n/a
Plant development phase C	n/a	n/a	n/a
Soil type	loamy clay	sandy loam	loamy sand
pH	6,7	6,7	6,5
Water (l/ha) A; B; C	300	300	300
Plot size	3x7=21m2	3x8=24 m2	3x8=24 m2

Winter triticale Czech Republic 2020

Report code	SRCZ20-056-301FE	SRCZ20-057-301FE	SRCZ20-058-301FE
Location	Sekerkovy Loučky / Czech Republic	Sekerkovy Loučky/ Czech Republic	Dolní Dubnany / Czech Republic
Plant/cultivar	Winter triticale /Talentro	Winter triticale /Agostino	Winter triticale /Agostino
Seeding date	05.10.2019	05.10.2019	25.09.2019
Seeding rate	200 kg/ha	200 kg/ha	230 kg/ha
Forecrop	YNKKX	YNKKX	winter wheat
Type of sprayer	BACSPR	BACSPR	BACCAI
Date of treatment A	13.05.2020	18.05.2020	20.05.2020
Date of treatment B	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a
Plant development phase A	BBCH 45	BBCH 47-51	BBCH 49-55
Plant development phase B	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a
Soil type	clayey sand	loamy clay	loamy sand
pH	no data	no data	6
Water (l/ha) A; B; C	225	225	300
Plot size	3x7=21 m2	3x7=21 m2	2,5x7=17,5 m2

Winter triticales Germany 2020 a

Report code	SRDE20-107-301FE	SRDE20-108-301FE	SRDE20-109-301FE	CHR-F-PROTAZO-EFF01-DE016	CHR_F_PROTAZO20_EFF3_DE17
Location	Moosham/Germany	Göttingen/Germany	Garching bei München /Germany	Bütthard-Tiefenthal /Germany	Martinsheim/Germany
Plant/cultivar	Winter triticales / SU Agendus	Winter triticales / Tender	Winter triticales / SU Agendus	Winter triticales / Lombardo	Winter triticales / SW Talentro
Seeding date	22.10.2019	07.10.2019	10.10.2019	16.10.2019	27.09.2019
Seeding rate	no data	140 kg/ha	130 kg/ha	150 kg/ha	330 S/m2
Forecrop	winter barley	winter wheat	winter wheat	winter wheat	maize
Type of sprayer	BOSPHO	BACCAI	BOSPHO	BACSPR	SPRBAC
Date of treatment A	22.04.2020	16.05.2020	27.05.2020	08.04.2020	28.04.2020
Date of treatment B	n/a	n/a	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 31-33	BBCH 45-51	BBCH 65-69	BBCH 29	BBCH 39-47
Plant development phase B	n/a	n/a	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a
Soil type	Silty loam	sandy clay loam	sandy loam	loam	sandy loam
pH	6,9	no data	7,6	7,1	6,5
Water (l/ha) A; B; C	300	200	300	300	300
Plot size	2,5x6=15m2	2,5x8=20,0m2	2,5x6=15m2	2,5x9=22,5m2	2,5x8=20 m2

Winter triticale Germany 2020 b

Report code	CHR_F_PROTAZO20_EFF2_DE18	CHR_F_PROTAZO20_EFF2_DE19	CHR_F_PROTAZO20_EFF4_DE20	CHR_F_PROTAZO20_EFF4_DE21	CHR_F_PROTAZO20_EFF5_DE22
Location	Vreden/Germany	Theilheim/Germany	Martinsheim/Germany	Theilheim/Germany	Büttthard-Tiefenthal/Germany
Plant/cultivar	Winter triticale / Barolo	Winter triticale / Lombardo	Winter triticale / SW Talentro	Winter triticale / Lombardo	Winter triticale / Robinson
Seeding date	28.10.2019	14.10.2019	27.09.2019	14.10.2019	16.10.2019
Seeding rate	320 S/m2	380 S/m2	330 S/m2	380 S/m2	150 kg/ha
Forecrop	maize	maize	maize	maize	winter wheat
Type of sprayer	BACSPR	SPRBAC	SPRBAC	SPRBAC	BACSPR
Date of treatment A	06.05.2020	29.04.2020	07.05.2020	05.05.2020	25.05.2020
Date of treatment B	26.05.2020	12.05.2020	n/a	n/a	n/a
Date of treatment C	n/a	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 33-37	BBCH 39	BBCH 47-49	BBCH 49	BBCH 65
Plant development phase B	BBCH 57-61	BBCH 49-53	n/a	n/a	n/a
Plant development phase C	n/a	n/a	n/a	n/a	n/a
Soil type	sand	sandy loam	loam	sandy loam	loam
pH	5,7	7,7	no data	7,7	7,1
Water (l/ha) A; B; C	300	300	300	300	300
Plot size	1,5x9,5=14,25m2	2,5x6=15 m2	2,5x8=20 m2	2,5x6=15 m2	2,5x9=22,5 m2

Spring barley Poland 2019

Report code	SRPL19-301-336FE	SRPL19-302-336FE	SRPL19-303-336FE	SRPL19-304-336FE	SRPL19-305-336FE	SRPL19-306-336FE	SRPL19-307-336FE	SRPL19-308-336FE
Location	Murczyn/ Poland	Szamotuły/ Poland	Jabłowo Pałuckie/ Poland	Teresin/ Poland	Pokrzywno/ Poland	Jankowice Wielkie/ Poland	Sarbka/Poland	Jankowice Wielkie/ Poland
Plant /cultivar	Spring barley/ Extase	Spring barley/ KWS Atrika	Spring barley/ Kucyk	Spring barley/ Soldo	Spring barley/ Scorpion	Spring barley/ Kucyk	Spring barley/ Antek	Spring barley/ Kucyk
Seeding date	29.03.2019	20.03.2019	02.04.2019	03.04.2019	04.04.2019	02.03.2019	15.03.2019	02.03.2019
Seeding rate	200 kg/ha	180 kg/ha	170 kg/ha	180 kg/ha	150 kg/ha	150 kg/ha	170 kg/ha	150 kg/ha
Forecrop	spring barley	maize	winter wheat	sugar beet	winter triticale	sugar beet	maize	sugar beet
Type of sprayer	BACCAI	BACCAI	BACCAI	BACSPR	BACSPR	BACCAI	BACCAI	BACCAI
Date of treatment A	13.05.2019	22.04.2019	24.05.2019	20.05.2019	10.05.2019	01.05.2019	20.04.2019	01.05.2019
Date of treatment B	03.06.2019	18.05.2019	14.06.2019	03.06.2019	31.05.2019	22.05.2019	18.05.2019	22.05.2019
Plant development phase A	BBCH 31-32	BBCH 31-32	BBCH 31-35	BBCH 33-37	BBCH 32-33	BBCH 32-37	BBCH 31-32	BBCH 32-37
Plant development phase B	BBCH 43-45	BBCH 43-51	BBCH 41-45	BBCH 47-51	BBCH 57-59	BBCH 55-59	BBCH 37-39	BBCH 55-59
Soil type	loamy sand	sandy loam	clay sandy loam	sandy clay loam	loam	loamy clay	sandy loam	loamy clay
pH	6,4	5,7	8,3	6,68	6,3	6,8	5,8	6,8
Water (l/ha) (application A and B)	300	200	200	300	200	300	200	300
Plot size	3x7=21m2	3x8=24m2	3x7=21m2	3x7=21m2	3x8=24m2	3x6=18m2	3x8=24m2	3x6=18m2

Spring barley Czech Republic 2019

Report code	CZOR-SYT19-HORVS-069NEC	CZOR-SYT19-HORVS-041RY	CZOR-SYT19-HORVS-070NEC	CZOR-SYT19-HORVS-042RYM	CZOR-SYT19-HORVS-043RYM
Location	Nechanice/ Czech Republic	Rymarov/ Czech Republic	Nechanice/ Czech Republic	Rymarov/ Czech Republic	Rymarov/ Czech Republic
Plant /cultivar	Spring barley/ Malz	Spring barley/ Francin	Spring barley/ Sebastian	Spring barley/ Francin	Spring barley/ Francin
Seeding date	28.03.2019	16.04.2019	04.04.2019	16.04.2019	16.04.2019
Seeding rate	215 kg/ha	220 kg/ha	220 kg/ha	220 kg/ha	220 kg/ha
Forecrop	sugar beet	lupine white	maize	lupine white	lupine white
Type of sprayer	BICCAI	SPRAYE	BICCAI	SPRAYE	SPRAYE
Date of treatment A	31.05.2019	13.06.2019	31.05.2019	13.06.2019	13.06.2019
Date of treatment B	21.06.2019	04.07.2019	21.06.2019	04.07.2019	04.07.2019
Plant development phase A	BBCH 37-39	BBCH 37	BBCH 37-39	BBCH 37	BBCH 37
Plant development phase B	BBCH 59-63	BBCH 45-47	BBCH 59-63	BBCH 45-47	BBCH 45-47
Soil type	clay loam	sandy loam	sandy clay loam	sandy loam	sandy loam
pH	6,5	6,4	6,4	6,4	6,4
Water (l/ha) (application A and B)	200	200	200	200	200
Plot size	2,7x9=24,3m2	1,375x14,54=19,992m2	2,7x9=24,3m2	1,375x14,54=19,992m2	1,375x14,54=19,992m2

Spring barley Poland 2020 a

Report code	AF/20/JJ/1/ZI/01	AF/20/JJ/1/ZI/02	AF/20/JJ/1/Br/03	AF/20/JJ/1/Pr/04	AF/20/JJ/1/Br/05	AF/20/JJ/1/Pr/06	AF/20/JJ/1/Br/07
Location	Złotniki/ Poland	Złotniki/ Poland	Brody/ Poland	Przybroda/ Poland	Brody/ Poland	Przybroda/ Poland	Brody/ Poland
Plant /cultivar	Spring barley/ Stratus	Spring barley/ Stratus	Spring barley/ Iron	Spring barley/ Penguin	Spring barley/ Iron	Spring barley/ Penguin	Spring barley/ Iron
Seeding date	26.03.2020	26.03.2020	24.03.2020	18.03.2020	24.03.2020	18.03.2020	24.03.2020
Seeding rate	147 kg/ha	147 kg/ha	160 kg/ha	175 kg/ha	160 kg/ha	175 kg/ha	160 kg/ha
Forecrop	maize	maize	maize	sugar beet	maize	sugar beet	maize
Type of sprayer	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR	BICSPR
Date of treatment A	20.05.2020	20.05.2020	29.05.2020	26.05.2020	29.05.2020	09.06.2020	09.06.2020
Date of treatment B	10.06.2020	10.06.2020	19.06.2020	16.06.2020	19.06.2020	n/a	n/a
Plant development phase A	BBCH 32-34	BBCH 32-34	BBCH 35-37	BBCH 31-33	BBCH 35-37	BBCH 49-52	BBCH 49-55
Plant development phase B	BBCH 52-54	BBCH 52-54	BBCH 53-57	BBCH 58-61	BBCH 53-57	n/a	n/a
Soil type	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	6,4	6,4	6,8	6	6,8	6	6,8
Water (l/ha) (application A and B)	200	200	200	200	230	200	230
Plot size	2,5x8=20m2	2,5x8=20m2	2x9=18m2	2x12=24m2	2x9=18m2	2x12=24m2	2x9=18m2

Spring barley Poland 2020 b

Report code	A.T/2020/86/JJ	A.T/2020/87/JJ	A.T/2020/88/JJ	A.T/2020/89/JJ	A.T/2020/090/JJ	A.T/2020/091/JJ	A.T/2020/092/JJ	A.T/2020/093/JJ
Location	Modrze/ Poland	Czachowo/ Poland	Białe Błoto/ Poland	Nowy Dwór/ Poland	Stęszew / Poland	Wilkowo/Poland	Maniewo/ Poland	Nowy Dwór/ Poland
Plant /cultivar	Spring barley/ RGT Planet	Spring barley/ KWS Irina	Spring barley/ Propino	Spring barley/ Quench	spring barley / RGT Planet	spring barley /Laureate	Spring barley/ Ellinor	Spring barley/ Quench
Seeding date	28.03.2020	26.03.2020	28.03.2020	03.04.2020	28.03.2020	20.03.2020	09.03.2020	03.04.2020
Seeding rate	107 kg/ha	110 kg/ha	200 kg/ha	175 kg/ha	107 kg/ha	150 kg/ha	150 kg/ha	175 kg/ha
Forecrop	sugar beet	maize	winter triticale	potatoes	sugar beet	winter rape	winter wheat	potatoes
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment A	08.05.2020	22.05.2020	20.05.2020	15.05.2020	18.05.2020	15.05.2020	04.06.2020	24.06.2020
Date of treatment B	03.06.2020	12.06.2020	09.06.2020	03.06.2020	08.06.2020	03.06.2020	n/a	n/a
Plant development phase A	BBCH 28-30	BBCH 30-32	BBCH 28-31	BBCH 30-31	BBCH 31-33	BBCH 30-31	BBCH 49-51	BBCH 49-51
Plant development phase B	BBCH 39-45	BBCH 49-53	BBCH 49-55	BBCH 49-51	BBCH 51-57	BBCH 49-51	n/a	n/a
Soil type	loamy sand	sandy loam	loamy sand	sandy loam	loamy sand	sandy loam	loamy sand	sandy loam
pH	6,5	6,6	4,7	5,6	6,5	5,3	6,4	5,6
Water (l/ha) (application A and B)	200	200	200	300	200	200	300	200
Plot size	2,5x7=17,5m2	2,5x8=20m2	2,5x8=20m2	2,5x7,5=18,75m2	2,5x7=17,5m2	2,5x8=20m2	2,5x7=17,5m2	2,5x7,5=18,75m2

Spring barley Czech Republic 2020

Report code	SRCZ20-066-301FE	SRCZ20-067-301FE	SRCZ20-064-301FE	CZOR-CPP20-HORVS-075SYT
Location	Dobronice/ Czech Republic	Dobřínsko/ Czech Republic	Křepice/ Czech Republic	Dobřínsko/ Czech Republic
Plant /cultivar	Spring barley/ Laudis	Spring barley/ KWS Amadora	Spring barley/ Solist	Spring barley/ KWS Amadora
Seeding date	25.03.2020	28.03.2020	18.03.2020	28.03.2020
Seeding rate	180 kg/ha	200 kg/ha	220 kg/ha	200 kg/ha
Forecrop	maize	potatoes	white mustard	maize
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment A	27.05.2020	27.05.2020	21.05.2020	22.05.2020
Date of treatment B	09.06.2020	15.06.2020	04.06.2020	04.06.2020
Plant development phase A	BBCH 37-49	BBCH 39-49	BBCH 34-39	BBCH 37-45
Plant development phase B	BBCH 56-61	BBCH 65-69	BBCH 55-59	BBCH 49-55
Soil type	loam	loam	loam	loam
pH	6,2	6,5	6,2	6,5
Water (l/ha) (application A and B)	300	300	300	300
Plot size	3x5=15m2	2,5x6=15m2	2,5x6=15m2	2,5x6=15m2

Spring barley Germany 2020

Report code	CHR_F_PROTAZO20_EFF8_DE27	CHR_F_PROTAZO20_EFF8_DE28	CHR_F_PROTAZO20_EFF8_DE29	CHR_F_PROTAZO20_EFF8_DE30	SRDE20-151-301FE
Location	Lüdersdorf/ Germany	Niederbösa/ Germany	Wittighausen-Poppenhausen/ Germany	Schonungen/ Germany	Neudenu-Kressbach/ Germany
Plant /cultivar	Spring barley/ Planet	Spring barley/ Leandra	Spring barley/ Avalon	Spring barley/ Avalon	Spring barley/ Avalon
Seeding date	29.03.2020	17.03.2020	20.03.2020	30.03.2020	20.04.2020
Seeding rate	no data	330 s/m2	145 kg/ha	165 kg/ha	160 kg/ha
Forecrop	maize	no data	winter wheat	winter wheat	winter barley
Type of sprayer	BACCAI	BACCAI	BACSPR	BACCAI	SPRAYE
Date of treatment A	29.05.2020	27.05.2020	02.06.2020	22.05.2020	15.05.2020
Date of treatment B	15.06.2020	09.06.2020	n/a	n/a	18.06.2020
Plant development phase A	BBCH 36-37	BBCH 31-34	BBCH 53	BBCH 30-31	BBCH 29-37
Plant development phase B	BBCH 58-61	BBCH 49-51	n/a	n/a	BBCH 49-55
Soil type	sandy loam	clay loam	loam	silt loam	silty clay
pH	6,5	no data	7,1	7,1	7,1
Water (l/ha) (application A and B)	300	300	300	300	300
Plot size	2,5x9=22,5m2	2,5x7=17,5 m2	2,5x9=22,5m2	2,5x8,25=20,625m2	3x8=24m2

Spring barley Poland 2021

Report code II	A.T/2021/102/JJ	AF/21/JJ/19/Zł/1	AF/21/JJ/19/Br/2	AF/21/JJ/19/Ra/3
Location	Stęszew/ Poland	Złotniki / Poland	Brody/ Poland	Rataje/ Poland
Plant /cultivar	Spring barley/ KWS Vermont	Spring barley/ Kucyk	Spring barley/ Iron	Spring barley/ Orphelia
Seeding date	01.04.2021	17.03.2021	26.03.2021	19.04.2021
Seeding rate	150 kg/ha	175 kg/ha	175 kg/ha	160 kg/ha
Forecrop	sugar beet	sugar beet	maize	winter triticale
Type of sprayer	BACCAI	BICSPR	BICSPR	BICSPR
Date of treatment A	16.06.2021	18.06.2021	14.06.2021	25.06.2021
Date of treatment B	n/a	n/a	n/a	n/a
Plant development phase A	BBCH 49-51	BBCH 49-51	BBCH 49-52	BBCH 47-51
Plant development phase B	n/a	n/a	n/a	n/a
Soil type	loamy sand	loamy sand	loamy sand	loamy sand
pH	6,3	7	5,8	6
Water (l/ha) (application A and B)	200	250	230	250
Plot size	2,5x7,0=17,5m2	1,5x12,0=18,0 m2	2x9,0=18,0m2	1,5x12,0=18,0 m2

Winter oilseed rape Poland 2019

Report code	A.T/2019/035/RZO	A.T/2019/036/RZO	A.T/2019/037/RZO	A.T/2019/038/RZO
Location	Dębiniec / Poland	Lipka / Poland	Lipka / Poland	Czartolomie / Poland
Plant /cultivar	winter oilseed rape / Kuga	winter oilseed rape / Hamilton	winter oilseed rape / Hamilton	winter oilseed rape / Hamilton
Seeding date	27.08.2018	22.08.2018	22.08.2018	09.09.2018
Seeding rate	2,6 kg/ha	2 kg/ha	2,0 kg/ha	2,8 kg/ha
Forecrop	winter wheat	winter wheat	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment	30.04.2019	13.05.2019	25.04.2019	01.05.2019
Plant development phase	BBCH 65-67	BBCH 65-67	BBCH 60-61	BBCH 64-65
Soil type	sandy loam	loamy sand	loamy sand	loamy sand
pH	6,2	5,5	5,5	5,3
Water (l/ha)	200	200	200	200
Plot size	2,5x10=25m2	2,5x10=25m2	2,5x10=25m2	3x7,5=22m2

Winter oilseed rape Czech Republic 2019

Report code	SRCZ19-028-301FE	CZOR-SYT19-BRSNN-088KUJ
Location	Lustenice /Czech Republic	Kujavy /Czech Republic
Plant /cultivar	winter oilseed rape /Alicante	winter oilseed rape /DK Exstorm
Seeding date	22.08.2018	29.08.2018
Seeding rate	1,1 kg/ha	2,77 kg/ha
Forecrop	winter barley	winter wheat
Type of sprayer	BACSPR	BICSPR
Date of treatment	14.05.2019	07.05.2019
Plant development phase	BBCH 65-67	BBCH 65
Soil type	sandy loam	loam
pH	6,8	5,9
Water (l/ha)	225	200
Plot size	3x7=21m2	3,5x9,15=32,025m2

Winter oilseed rape Poland 2020

Report code	A.T/2020/022/RZO	A.T/2020/023/RZO	A.T/2020/024/RZO	AF/20/RO/1/Pr/01	AF/20/RO/1/Pr/02	AF/20/RO/1/ZL/03
Location	Gaj Wielki / Poland	Lysomice/ Poland	Gaj Wielki / Poland	Przybroda / Poland	Przybroda / Poland	Złotniki / Poland
Plant /cultivar	winter oilseed rape / Dominator	winter oilseed rape / Bonanza	winter oilseed rape / Dominator	Winter oilseed rape / Harry	Winter oilseed rape / Harry	winter oilseed rape
Seeding date	22.08.2019	20.08.2019	22.08.2019	22.08.2019	22.08.2019	23.08.2019
Seeding rate	2,5 kg/ha	2,7 kg/ha	2,5 kg/ha	3,1 kg/ha	3,1 kg/ha	3,24 kg/ha
Forecrop	winter oilseed rape	winter wheat	winter oilseed rape	spring barley	spring barley	pea
Type of sprayer	BACCAI	BACCAI	BACCAI	BICSPR	BICSPR	BICSPR
Date of treatment	21.04.2020	30.04.2020	03.05.2020	27.04.2020	08.05.2020	08.05.2020
Plant development phase	BBCH 57-62	BBCH 63-65	BBCH 65-67	BBCH 59-65	BBCH 65-69	BBCH 65-69
Soil type	sandy loam	loamy sand	sandy loam	loamy sand	loamy sand	loamy sand
pH	5,8	5,8	5,8	6,1	6,1	6,5
Water (l/ha)	300	200	300	200	200	200
Plot size	2,5x8=20m2	2,5x10=25m2	2,5x8=20m2	1,5x12=18m2	1,5x12=18m2	2,5x10=25m2

Winter oilseed rape Czech Republic 2020

Report code	SRCZ20-059-301FE	SRCZ20-060-301FE	SRCZ20-061-301FE
Location	Hořkovice /Czech Republic	Luštěnice /Czech Republic	Mikulovice /Czech Republic
Plant /cultivar	winter oilseed rape / LG Architect	winter oilseed rape / DK Expansion	winter oilseed rape / Arabela
Seeding date	30.08.2019	16.08.2019	15.08.2019
Seeding rate	50 S/m ²	400 KS/ha	6 kg/ha
Forecrop	winter barley	winter wheat	winter wheat
Type of sprayer	BACSPR	BACSPR	BACCAI
Date of treatment	28.04.2020	29.04.2020	08.05.2020
Plant development phase	BBCH 61-65	BBCH 61-65	BBCH 65-67
Soil type	loam	no data	loam
pH	6,9	no data	6,2
Water (l/ha)	200	220	250
Plot size	3x7=21m ²	3x7=21m ²	2,5x9=22,5m ²

Winter oilseed rape Germany 2020

Report code	SRDE20-110-301FE	SRDE20-111-301FE	SRDE20-112-301FE	SRDE20-113-301FE	CHR_F_PROTAZO20_EFF06_DE23	CHR_F_PROTAZO20_EFF07_DE24
Location	Langenbrettach /Germany	Roigheim /Germany	Langenbrettach /Germany	Roigheim /Germany	Grieben /Germany	Siemitz /Germany
Plant /cultivar	winter oilseed rape / Archipel	winter oilseed rape / Archipel	winter oilseed rape / ES Vito	winter oilseed rape / Archipel	winter oilseed rape / Alvaro	winter oilseed rape / Horace
Seeding date	29.08.2019	28.08.2019	29.08.2019	28.08.2019	03.09.2019	23.08.2019
Seeding rate	2,6 kg/ha	2,5 kg/ha	2,6 kg/ha	2,5 kg/ha	45 S/m2	50 S/m2
Forecrop	winter oilseed rape	winter barley	winter barley	winter barley	winter barley	winter barley
Type of sprayer	BACCAI	SPRAYE	SPRAYE	SPRAYE	BACCAI	BACSPR
Date of treatment	08.05.2020	07.05.2020	12.05.2020	12.05.2020	24.04.2020	11.05.2020
Plant development phase	BBCH 61-65	BBCH 61-65	BBCH 65-69	BBCH 65-69	BBCH 61-65	BBCH 63-67
Soil type	silty clay	silty clay	silty clay	silty clay	loamy sand	sandy loam
pH	7,3	6,7	7,5	6,7	6,4	6,3
Water (l/ha)	300	300	300	300	300	300
Plot size	3x8=24m2	3x8=24m2	3x8=24m2	3x8=24m2	2,5x10=25 m2	3x10=30 m2

Details of agricultural measures, fertilization, and other plant protection products applied during the experiments are included in detailed field study reports listed above.

Summary of the data from effectiveness trials can be found at Appendix 5

Table 3.4-3: Phytotoxicity of product

The 144 trials were carried out on winter wheat, winter triticale, spring barley and winter oilseed rape in Poland, Czech Republic and Germany in 2019, 2020 and 2021 on a wide range of commercially grown varieties. There were not observed any phytotoxicity symptoms on tested product and standard in trials.

Not applicable

Number of trials with		Efficacy/selectivity phytotoxicity trials (144)		
		CHR/F/PROTAZO	Standard I Makler / Azoxin 250 SE; Amistar, Azabany, Torero, Tazer, Ortiva	Standard II Delaro 325 S.C., Elatus Era, Toledo Extra, Proline, Input Classic, Tilmor, Propulse, Fandango
		N	N	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a
Level of symptoms at the last assessments	0% to 5%	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a

Comments of zRMS:	The applicant submitted 144 reports showing the results in research into product selectivity phytotoxicity carried out in 2019 and 2020 and 2021 in winter wheat (43 trials), winter triticale (39 trials), spring barley (41 trials) and oilseed rape (21 trials). No phytotoxicity symptoms were observed in the efficacy tests.
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3.4.2 Effect on the yield of treated plants or plant product (KCP 6.4.2)

Influence of CHR/F/PROTAZO on the yield of grains was evaluated in selectivity research. The yield was evaluated on the basis of harvested grains quantity from one hectare (t/ha). The influence of the tested product on quantity of grain was evaluated in 144 field experiments in winter wheat, winter triticale, spring barley and winyter oilseed rape in Poland, Czech Republic and Germany in 2019, 2020 and 2021. There weren't difference between the treatment objects and standard.

Winter wheat

table 3.4.2.1-1a The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Poland 2019

	winter wheat / Yield t/ha												
Report code	A.T/2019/028/PO	A.T/2019/029/PO	A.T/2019/030/PO	A.T/2019/031/PO	SRPL19-146-336FE	SRPL19-143-336FE	SRPL19-144-336FE	SRPL19-141-336FE	SRPL19-140-336FE	SRPL19-139-336FE	SRPL19-138-336FE	SRPL19-137-336FE	SRPL19-136-336FE
Untreated	7,52	7,64	8,28	7,66	4,78	5,90	7,40	6,50	5,40	5,80	6,30	3,70	5,95
CHR/F/PROTAZO 0,8 l/ha	7,59	7,38	8,42	7,63	4,89	6,32	8,60	6,90	5,70	6,00	6,70	3,70	6,43
CHR/F/PROTAZO 0,9 l/ha	7,69	8,02	8,35	7,95	4,92	6,35	8,50	7,00	5,80	6,00	6,90	3,90	6,59
CHR/F/PROTAZO 1,0 l/ha	7,55	8,20	8,3	7,9	5,06	6,18	8,80	7,00	5,80	6,20	6,80	4,30	6,52
Delaro 1 l/ha	7,60	7,94	8,17	8,2	4,86	6,22	8,70	7,00	5,90	6,30	7,00	4,20	6,77
Azoxin / Makler 1,0 l/ha	7,51	7,79	8,11	7,78	5,11	6,34	8,00	7,00	5,90	6,60	6,80	4,10	6,32
LSD	0,45	1,34	0,382	0,619	0,720	0,546	0,800	0,780	0,220	0,580	0,260	0,950	0,479

table 3.4.2.1-1b The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Czech Republic 2019

	winter wheat / Yield t/ha							
Report code	SRCZ19-025-301FE	SRCZ19-023-301FE	SRCZ19-024-301FE	SRCZ19-029-301FE	SRCZ19-022-301FE	SRCZ19-026-301FE	SRCZ19-027-301FE	SRCZ19-030-301FE
Untreated	4,50	4,38	4,24	7,55	7,47	5,07	6,81	5,99
CHR/F/PROTAZO 0,8 l/ha	5,14	4,39	4,93	7,09	7,47	4,84	7,21	5,94
CHR/F/PROTAZO 0,9 l/ha	3,94	4,52	4,92	7,80	7,54	4,68	7,03	6,00
CHR/F/PROTAZO 1,0 l/ha	4,68	4,02	4,30	7,91	7,60	5,11	7,46	6,22
Delaro 1 l/ha	4,23	4,25	4,77	7,50	7,46	4,90	7,37	6,07
Amistar 1,0 l/ha	4,48	4,12	4,74	7,72	7,55	4,80	7,21	6,29
LSD	1,259	0,5	0,762	0,683	0,195	0,769	0,539	0,668

table 3.4.2.1-1c The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Poland 2020

	winter wheat / Yield t/ha									
Report code	A.T/2020/009/PO	A.T/2020/010/PO	A.T/2020/011/PO	A.T/2020/012/PO	A.T/2020/013/PO	AF/20/PO/1/Br/05	AF/20/PO/1/Br/04	AF/20/PO/1/Pr/03	AF/20/PO/1/Pr/01	AF/20/PO/1/Zl/02
Untreated	7,25	7,67	6,19	8,17	6,72	9,40	7,40	6,30	7,30	7,90
CHR/F/PROTAZO 0,8 l/ha	7,52	8,46	6,25	8,30	7,30	10,10	7,70	6,80	8,10	8,80
CHR/F/PROTAZO 0,9 l/ha	7,43	8,18	6,13	8,42	7,39	10,30	8,10	7,20	8,80	8,80
CHR/F/PROTAZO 1,0 l/ha	8,07	8,33	6,29	8,38	7,51	10,60	8,50	7,50	8,70	8,70
Delaro 1 l/ha	7,95	8,10	6,01	8,31	7,15	10,40	7,80	7,50	8,40	8,80
Azoxin / Makler 1,0 l/ha	7,35	7,98	5,80	8,35	6,80	10,40	8,00	7,50	8,60	8,50
LSD	0,578	0,345	0,584	0,178	0,411	0,910	0,770	0,580	0,880	0,690

table 3.4.2.1-1d The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Czech Republic 2020

	winter wheat / Yield t/ha			
Report code	SRCZ20-052-301FE	CHR_F_PROTAZO20_EFF01	SRCZ20-054-301FE	SRCZ20-055-301FE
Untreated	1,47	5,99	10,26	9,20
CHR/F/PROTAZO 0,8 l/ha	1,24	6,35	10,57	9,40
CHR/F/PROTAZO 0,9 l/ha	1,00	6,39	10,78	9,80
CHR/F/PROTAZO 1,0 l/ha	1,61	6,31	11,07	9,70
Delaro 1 l/ha	1,26	6,40	10,40	9,90
Amistar 1,0 l/ha	1,35	6,50	9,92	9,50
LSD	0,474	0,353	0,646	0,910

table 3.4.2.1-1e The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Germany 2020

	winter wheat / Yield t/ha							
Report code	SRDE20-101-301FE	SRDE20-102-301FE	SRDE20-103-301FE	SRDE20-104-301FE	SRDE20-105-301FE	SRDE20-106-301FE	CHR_F_PROTAZO_EFF5_DE14	CHR_F_PROTAZO_EFF5_DE15
Untreated	4,60	4,18	4,90	3,90	3,60	6,24	12,12	5,62
CHR/F/PROTAZO 0,8 l/ha	6,60	4,47	6,30	3,70	4,70	5,62	12,26	5,76
CHR/F/PROTAZO 0,9 l/ha	6,40	4,52	6,10	3,80	5,10	6,08	12,24	5,83
CHR/F/PROTAZO 1,0 l/ha	6,50	4,40	6,30	4,80	5,40	5,50	12,34	5,77
Delaro 1 l/ha, Proline 0,8 l/ha	6,50	4,22	6,00	3,70	5,20	6,00	12,31	5,87
Amistar 1,0 l/ha, Azbany 1,0 l/ha	6,90	4,26	6,00	4,10	6,00	4,91	12,37	5,69
LSD	0,640	0,375	0,930	0,990	0,880	1,207	0,534	0,226

Winter triticales

table 3.4.2.1-2 a The influence of the CHR/F/PROTAZO on yield quantity [t/ha] - Poland 2019

	winter triticales / Yield t/ha				
Report code	SRPL19-142-336FE	SRPL19-143-336FE	A.T/2019/032/PZO	A.T/2019/033/PZO	A.T/2019/034/PZO
Untreated	5,33	6,39	8,71	6,6	9,77
CHR/F/PROTAZO 0,8 l/ha	5,83	6,85	9,26	7,42	10,45
CHR/F/PROTAZO 0,9 l/ha	5,94	7,1	9,11	7,42	10,53
CHR/F/PROTAZO 1,0 l/ha	5,74	6,96	9,37	7,09	10,49
Delaro 1l/ha	5,87	7,12	9,38	7,2	10,08
Azoxin / Makler 1,0 l/ha	5,78	7,05	9,34	6,94	10,52
LSD	0,452	0,407	0,656	0,435	0,38

table 3.4.2.1-2 b The influence of the CHR/F/PROTAZO on yield quantity [t/ha] - Czech Republic 2019

	winter triticales / Yield t/ha			
Report code	CZOR-SYT19-TTLSS-030RYM	CZOR-SYT19-TTLSS-051NEC	CHR_F_PROTAZO_CZ11	CZOR-SYT19-TTLSS-031RYM
Untreated	3,93	6,86	7,1	6
CHR/F/PROTAZO 0,8 l/ha	4,35	7,83	8,5	6,7
CHR/F/PROTAZO 0,9 l/ha	4,45	7,99	9,4	6,8
CHR/F/PROTAZO 1,0 l/ha	4,52	8,03	9,4	6,8
Delaro 1 l/ha	4,53	7,99	9,5	6,7
Amistar 1,0 l/ha	4,54	7,61	8,7	6,8
LSD	0,055	0,144	0,16	0,08

table 3.4.2.1-2 c The influence of the CHR/F/PROTAZO on yield quantity [t/ha] - Poland 2020

	winter triticale / Yield t/ha						
Report code	A.T/2020/014/PZO	A.T/2020/015/PZO	A.T/2020/016/PZO	A.T/2020/017/PZO	A.T/2020/018/PZO	A.T/2020/019/PZO	A.T/2020/020/PZO
Untreated	9,1	6,23	7,75	6,33	8,4	7,91	9,17
CHR/F/PROTAZO 0,8 l/ha	9,18	6,85	8,1	6,8	8,93	8,15	9,24
CHR/F/PROTAZO 0,9 l/ha	9,05	6,68	8,09	7,21	9,01	8,19	9,45
CHR/F/PROTAZO 1,0 l/ha	9,16	7,05	8,09	7,03	9,23	8,15	9,38
Delaro 1l/ha	9,38	6,75	8,28	6,99	9,5	8,07	9,36
Azoxin / Makler 1,0 l/ha	9,1	6,12	7,78	6,81	8,83	8,07	9,05
LSD	0,428	0,233	0,173	0,31	0,491	0,277	0,294

table 3.4.2.1-2 d The influence of the CHR/F/PROTAZO on yield quantity [t/ha] - Poland 2020

	winter triticale / Yield t/ha						
Report code	A.T/2020/021/PZO	AF/20/PszO/1/Pr/01	AF/20/PszO/1/Br/02	AF/20/PszO/1/Pr/03	AF/20/PszO/1/Br/04	AF/20/PszO/1/ZI/05	AF/20/PszO/1/Br/06
Untreated	6,4	5,8	7,3	4,8	4,9	5,8	9,4
CHR/F/PROTAZO 0,8 l/ha	0,76	6,6	8,9	5	5,7	6,5	10,5
CHR/F/PROTAZO 0,9 l/ha	6,67	7	9	5,1	6,3	6,6	10,3
CHR/F/PROTAZO 1,0 l/ha	6,82	6,9	8,7	5,5	6,7	7	10,6
Delaro 1l/ha	6,86	6,6	9,6	5,4	6,5	6,5	10,4
Azoxin / Makler 1,0 l/ha	6,9	6,6	7,8	5,5	6,5	6,3	10,2
LSD	0,455	0,87	0,77	0,44	0,92	0,89	1,02

table 3.4.2.1-2 e The influence of the CHR/F/PROTAZO on yield quantity [t/ha] - Poland 2020

	winter triticales / Yield t/ha		
Report code	SRPL2020_404_336_FE	SRPL20-405-336FE	SRPL20-406-336FE
Untreated	6,74	5,52	5,44
CHR/F/PROTAZO 0,8 l/ha	7,23	5,94	6,44
CHR/F/PROTAZO 0,9 l/ha	7,17	6,07	6,56
CHR/F/PROTAZO 1,0 l/ha	7,52	6,15	6,39
Delaro 1l/ha	7,45	6,13	6,53
Azoxin / Makler 1,0 l/ha	7,32	6,17	6,29
LSD	0,455	0,370	0,261

table 3.4.2.1-2 f The influence of the CHR/F/PROTAZO on yield quantity [t/ha] - Czech Republic 2020

	winter triticales / Yield t/ha		
Report code	SRCZ20-056-301FE	SRCZ20-057-301FE	SRCZ20-058-301FE
Untreated	5,44	4,73	3,77
CHR/F/PROTAZO 0,8 l/ha	5,85	5,3	3,89
CHR/F/PROTAZO 0,9 l/ha	5,63	5,39	4,06
CHR/F/PROTAZO 1,0 l/ha	6,11	5,03	3,84
Delaro 1 l/ha	5,81	4,54	3,83
Amistar 1,0 l/ha	5,13	5,03	3,68
LSD	0,445	1,061	0,374

table 3.4.2.1-2 g The influence of the CHR/F/PROTAZO on yield quantity [t/ha] - Germany 2020

winter triticales / Yield t/ha							
Report code	CHR-F-PROTAZO- EFF01-DE016	CHR_F_PROTAZO20_EFF3_DE17	CHR_F_PROTAZO20_EFF2_DE18	CHR_F_PROTAZO20_EFF2_DE19	CHR_F_PROTAZO20_EFF4_DE20	CHR_F_PROTAZO20_EFF4_DE21	CHR_F_PROTAZO20_EFF5_DE22
Untreated	11,85	9,76	7,99	10,8	9,67	10,9	11,95
CHR/F/PROTAZO 0,8 l/ha	11,97	10,25	8,63	11,1	10,13	11	12,25
CHR/F/PROTAZO 0,9 l/ha	11,98	10,3	8,81	11	10,05	11,1	12,28
CHR/F/PROTAZO 1,0 l/ha	11,86	10,22	9,11	10,9	10,15	10,9	12,14
Delaro 1 l/ha, Proline 0,8 l/ha	12,29	10,26	9,04	11	10,04	10,9	12,2
Amistar 1,0 l/ha, Azbany 1,0 l/ha	11,95	10,09	8,31	10,8	10,04	10,7	12,02
LSD	0,392	0,51	0,422	0,49	0,397	0,41	0,592

Spring barley

table 3.4.2.1-3 a The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Poland 2019

Spring barley / Yield t/ha								
Report code	SRPL19-301- 336FE	SRPL19-302- 336FE	SRPL19-303- 336FE	SRPL19-304-336FE	SRPL19-305-336FE	SRPL19-306-336FE	SRPL19-307-336FE	SRPL19-308-336FE
Untreated	3,72	3,90	3,85	5,10	3,70	4,43	3,40	4,84
CHR/F/PROTAZO 0,6 l/ha	4,75	4,30	3,91	5,60	3,80	5,01	4,10	5,36
CHR/F/PROTAZO 0,8 l/ha	5,15	4,20	3,91	5,80	3,80	5,30	4,10	5,50
CHR/F/PROTAZO 1,0 l/ha	5,28	4,30	4,05	6,10	3,80	5,50	4,10	5,56
Elatus Era1 l/ha /Fandango 1 l/ha / Proline 0,8 l/ha	5,66	4,30	3,89	6,40	3,80	5,41	4,10	5,55
Azoxin / Makler/ Amistar 1,0 l/ha / Tazer 1,0 l/ha / Azbany 1 l/ha	5,35	4,30	3,94	5,90	3,80	5,48	4,10	5,56
LSD	0,427	0,200	0,336	0,590	0,310	0,537	0,280	0,440

table 3.4.2.1-3 b The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Czech Republic 2019

Spring barley / Yield t/ha					
Report code	CZOR-SYT19-HORVS-069NEC	CZOR-SYT19-HORVS-041RY	CZOR-SYT19-HORVS-070NEC	CZOR-SYT19-HORVS-042RYM	CZOR-SYT19-HORVS-043RYM
Untreated	8,23	1,80	7,20	1,80	1,80
CHR/F/PROTAZO 0,6 l/ha	9,18	2,20	7,84	2,20	2,20
CHR/F/PROTAZO 0,8 l/ha	9,35	2,20	8,23	2,20	2,20
CHR/F/PROTAZO 1,0 l/ha	9,44	2,30	8,24	2,30	2,30
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	9,14	2,30	8,15	2,30	2,30
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	9,42	2,30	7,84	2,30	2,30
LSD	0,232	0,050	0,177	0,050	0,040

table 3.4.2.1-3 c The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Poland 2020

Spring barley / Yield t/ha								
Report code	AF/20/JJ/1/ZI/01	AF/20/JJ/1/ZI/02	AF/20/JJ/1/Br/03	AF/20/JJ/1/Pr/04	AF/20/JJ/1/Br/05	AF/20/JJ/1/Pr/06	AF/20/JJ/1/Br/07	A.T/2020/86/JJ
Untreated	4,9	5	3,6	6,4	4,5	6,6	4,1	6,01
CHR/F/PROTAZO 0,6 l/ha	5,9	5,6	5,2	7,3	5,7	6,9	5,5	6,07
CHR/F/PROTAZO 0,8 l/ha	5,7	5,8	5,2	7	5,7	7	5,3	6,23
CHR/F/PROTAZO 1,0 l/ha	6	5,5	5	6,9	5,9	7	5,4	6,32
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	5,6	5,6	4,9	7,3	6,1	7,1	5,4	6,06
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	5,9	5,6	5	7,1	5,9	6,9	5,2	6,25
LSD	0,77	0,857	1,27	0,65	0,96	0,43	1,34	0,277

table 3.4.2.1-3 d The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Poland 2020

	Spring barley / Yield t/ha						
Report code	A.T/2020/87/JJ	A.T/2020/88/JJ	A.T/2020/89/JJ	A.T/2020/090/JJ	A.T/2020/091/JJ	A.T/2020/092/JJ	A.T/2020/093/JJ
Untreated	5,61	5,13	7,41	3,88	6,08	4,99	7,23
CHR/F/PROTAZO 0,6 l/ha	7,73	5,79	7,89	3,98	6,84	5,27	8
CHR/F/PROTAZO 0,8 l/ha	7,55	5,94	7,99	4,13	6,65	5,02	8,09
CHR/F/PROTAZO 1,0 l/ha	7,95	6,05	7,96	4,1	7,01	5,43	8,15
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	5,9	5,36	7,69	4,07	6,58	4,79	8,02
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	7,45	6,11	7,87	4,03	6,88	5,26	7,85
LSD	0,391	0,437	0,291	0,157	0,531	0,507	0,362

table 3.4.2.1-3 e The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Czech Republic 2020

	Spring barley / Yield t/ha			
Report code	SRCZ20-066-301FE	SRCZ20-067-301FE	SRCZ20-064-301FE	CZOR-CPP20-HORVS-075SYT
Untreated	6,20	7,49	7,22	6,66
CHR/F/PROTAZO 0,6 l/ha	6,00	7,61	6,50	6,93
CHR/F/PROTAZO 0,8 l/ha	6,00	7,56	6,80	6,78
CHR/F/PROTAZO 1,0 l/ha	6,10	7,90	6,91	7,07
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	5,90	7,57	6,84	6,92
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	6,00	7,42	6,52	6,92
LSD	0,640	0,601	0,415	0,540

table 3.4.2.1-3 f The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Germany 2020

Spring barley / Yield t/ha					
Report code	SRDE20-151-301FE	CHR_F_PROTAZO20_EFF8_DE27	CHR_F_PROTAZO20_EFF8_DE28	CHR_F_PROTAZO20_EFF8_DE29	CHR_F_PROTAZO20_EFF8_DE30
Untreated	7,10	6,90	6,30	9,43	6,43
CHR/F/PROTAZO 0,6 l/ha	9,00	7,60	6,50	9,89	6,43
CHR/F/PROTAZO 0,8 l/ha	9,40	7,50	6,40	9,88	6,49
CHR/F/PROTAZO 1,0 l/ha	9,50	7,40	6,40	9,88	6,19
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	9,40	7,90	6,60	9,75	6,53
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	9,60	7,00	6,50	9,74	6,29
LSD	0,460	0,320	0,420	0,262	0,407

table 3.4.2.1-3 g The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Poland 2021

Spring barley / Yield t/ha				
Report code	A.T/2021/102/JJ	AF/21/JJ/19/ZI/1	AF/21/JJ/19/Br/2	AF/21/JJ/19/Ra/3
Untreated	4,85	3,50	6,60	4,30
CHR/F/PROTAZO 0,6 l/ha	5,28	4,10	6,70	4,60
CHR/F/PROTAZO 0,8 l/ha	5,10	4,80	6,90	4,50
CHR/F/PROTAZO 1,0 l/ha	5,16	4,60	7,00	4,70
Fandango 1 l/ha	5,02	4,60	6,50	4,80
Tazer 1,0 l/ha	4,87	4,60	6,60	4,80
LSD	0,233	0,620	0,570	0,520

Winter oilseed rape

table 3.4.2.1-4 a The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Poland 2019

winter oilseed rape / Yield t/ha				
Report code	A.T/2019/035/RZO	A.T/2019/036/RZO	A.T/2019/037/RZO	A.T/2019/038/RZO
Untreated	3,95	3,42	3,47	4,71
CHR/F/PROTAZO 0,8 l/ha	3,93	3,48	3,5	4,95
CHR/F/PROTAZO 0,9 l/ha	4,15	3,45	3,47	4,87
CHR/F/PROTAZO 1,0 l/ha	4,1	3,6	3,6	4,91
Toledo Extra 0,75 l/ha	4,05	3,48	3,39	4,85
Azoxin / Makler 1,0 l/ha	3,93	3,44	3,43	4,93
LSD	0,197	0,136	0,266	0,192

table 3.4.2.1-4 b The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Czech Republic 2019

winter oilseed rape / Yield t/ha		
Report code	SRCZ19-028-301FE	CZOR-SYT19-BRSNN-088KUJ
Untreated	2,83	4,93
CHR/F/PROTAZO 0,8 l/ha	3,18	5,06
CHR/F/PROTAZO 0,9 l/ha	2,93	5,02
CHR/F/PROTAZO 1,0 l/ha	3,16	5,23
Toledo Extra 0,75 l/ha	2,97	5,11
Amistar 1,0 l/ha	3,1	5,23
LSD	0,433	0,324

table 3.4.2.1-4 c The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Poland 2020

winter oilseed rape / Yield t/ha						
Report code	A.T/2020/022/RZO	A.T/2020/023/RZO	A.T/2020/024/RZO	AF/20/RO/1/Pr/01	AF/20/RO/1/Pr/02	AF/20/RO/1/ZL/03
Untreated	4,69	4,64	4,63	3,9	3,5	3,8
CHR/F/PROTAZO 0,8 l/ha	4,84	4,97	4,89	4,2	4,5	4
CHR/F/PROTAZO 0,9 l/ha	4,71	4,98	4,96	4,7	4,5	4,1
CHR/F/PROTAZO 1,0 l/ha	4,75	5,04	5,01	4,6	4,8	4,2
Toledo Extra 0,75 l/ha	4,63	4,99	4,9	4,3	4,1	3,8
Azoxin / Makler 1,0 l/ha	4,81	4,96	4,84	4,1	3,8	3,9
LSD	0,212	0,141	0,305	1,23	0,94	0,63

table 3.4.2.1-4 d The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Czech Republic 2020

winter oilseed rape / Yield t/ha			
Report code	SRCZ20-059-301FE	SRCZ20-060-301FE	SRCZ20-061-301FE
Untreated	3,35	2,68	3,16
CHR/F/PROTAZO 0,8 l/ha	3,80	3,20	3,29
CHR/F/PROTAZO 0,9 l/ha	3,70	3,18	3,21
CHR/F/PROTAZO 1,0 l/ha	3,55	3,06	3,05
Toledo Extra 0,75 l/ha	4,03	3,05	3,19
Amistar 1,0 l/ha	3,81	3,02	3,17
LSD	0,355	0,543	0,453

table 3.4.2.1-4 e The influence of the CHR/F/PROTAZO on yield quantity [t/ha] – Germany 2020

winter oilseed rape / Yield t/ha						
Report code	SRDE20-110-301FE	SRDE20-111-301FE	SRDE20-112-301FE	SRDE20-113-301FE	CHR_F_PROTAZO20_EFF06_DE23	CHR_F_PROTAZO20_EFF07_DE24
Untreated	2,60	2,30	1,60	2,00	4,40	4,83
CHR/F/PROTAZO 0,8 l/ha	2,90	2,40	2,60	1,90	4,40	4,81
CHR/F/PROTAZO 0,9 l/ha	2,10	2,30	3,20	1,80	4,60	4,99
CHR/F/PROTAZO 1,0 l/ha	2,40	2,40	2,70	1,70	4,60	5,02
Toledo Extra 0,75 l/ha	2,70	2,30	2,70	2,00	4,40	4,96
Amistar 1,0 l/ha	2,20	2,20	2,30	2,10	4,50	5,08
LSD	1,600	0,790	0,610	0,910	0,190	0,221

Table 3.4-4: Relationship between phytotoxicity and yield.

Not applicable.

There were not observed any phytotoxicity symptoms on tested product and standard in trials. This effects didn't have any negative effect on the yield of winter wheat, spring barley, winter oilseed rape and winter triticale.

Comments of zRMS:	The application of fungicide CHR/F/PROTAZO at dose rate 1,0 l/ha resulted in an increase of yield of winter wheat, winter triticale, spring barley and winter oilseed rape in comparison to the untreated check. The yield was check in efficacy trials carried out in 2019 2020 and 2021.
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3.4.3 Effects on the quality of plants or plant products (KCP 6.4.3)

144 studies conducted in 2019, 2020 and 2021 in Poland, Czech Republic and Germany on winter wheat 43 trials, winter triticale 39 trials, spring barley 41 trials and winter oilseed rape 21 trials had no negative impact of CHR/F/PROTAZO on quality of plants. Influence of CHR/F/PROTAZO on the quality was evaluated in selectivity research. The influence of the tested product on quantity was evaluated in 144 field experiments. There weren't difference between the treatment objects and standard. Details of the data shows tables below

table 3.4.3.1-1 The influence of the CHR/F/PROTAZO on quality of yield

Winter wheat (HLW = weight 100 Ltr (hl)) – Poland 2019 a

winter wheat /HLW weight 100 Ltr (hl)						
Report code	A.T/2019/028/PO	A.T/2019/029/PO	A.T/2019/030/PO	A.T/2019/031/PO	SRPL19-146-336FE	SRPL19-143-336FE
Untreated	70,9	75,7	77,8	79,1	64,68	76,60
CHR/F/PROTAZO 0,8 l/ha	71,9	74,7	78,2	79,5	64,25	76,50
CHR/F/PROTAZO 0,9 l/ha	71,4	76,4	78	79	62,20	76,68
CHR/F/PROTAZO 1,0 l/ha	70,5	75,9	78,2	79,6	66,73	76,78
Delaro 1 l/ha	71,6	76,4	78,4	78,6	64,68	76,50
Azoxin / Makler 1,0 l/ha	70,4	74,8	77,5	79,1	65,85	76,55
LSD	2,49	3,02	0,57	0,98	4,067	0,841

Winter wheat (HLW = weight 100 Ltr (hl)) – Poland 2019 b

winter wheat /HLW weight 100 Ltr (hl)							
Report code	SRPL19-144-336FE	SRPL19-141-336FE	SRPL19-140-336FE	SRPL19-139-336FE	SRPL19-138-336FE	SRPL19-137-336FE	SRPL19-136-336FE
Untreated	69,69	75,51	76,60	86,90	63,63	58,93	74,83
CHR/F/PROTAZO 0,8 l/ha	72,76	75,39	77,00	84,80	63,95	62,31	76,83
CHR/F/PROTAZO 0,9 l/ha	72,29	75,57	77,13	86,06	63,24	61,47	76,27
CHR/F/PROTAZO 1,0 l/ha	70,98	77,25	77,08	87,39	63,58	60,75	76,49
Delaro 1 l/ha	71,02	76,09	77,23	88,96	63,78	59,31	76,48
Azoxin / Makler 1,0 l/ha	71,95	75,36	77,05	87,33	63,17	60,88	76,56
LSD	2,495	5,331	0,639	6,127	2,344	5,661	1,619

Winter wheat (HLW = weight 100 Ltr (hl)) – Czech Republic 2019

winter wheat /HLW weight 100 Ltr (hl)								
Report code	SRCZ19-025-301FE	SRCZ19-023-301FE	SRCZ19-024-301FE	SRCZ19-029-301FE	SRCZ19-022-301FE	SRCZ19-026-301FE	SRCZ19-027-301FE	SRCZ19-030-301FE
Untreated	80	79,75	80	76,75	77,13	78,25	73,75	70,00
CHR/F/PROTAZO 0,8 l/ha	80,88	78,25	79,38	77	77,38	79	75,25	70,00
CHR/F/PROTAZO 0,9 l/ha	80,25	79,5	79,25	77,5	76,75	77,38	75,00	71,30
CHR/F/PROTAZO 1,0 l/ha	79,25	79,63	80	75,75	78,63	78,75	75,75	68,30
Delaro 1 l/ha	79,88	78,75	80,5	76,5	77,5	77,63	74,00	69,50
Amistar 1,0 l/ha	79,25	79,75	79,5	75,5	76,5	79,63	74,00	70,00
LSD	1,753	1,624	1,088	4,146	2,676	1,738	2,424	4,490

Winter wheat (HLW = weight 100 Ltr (hl)) – Poland 2020

winter wheat /HLW weight 100 Ltr (hl)										
Report code	A.T/2020/009/PO	A.T/2020/010/PO	A.T/2020/011/PO	A.T/2020/012/PO	A.T/2020/013/PO	AF/20/PO/1/Br/05	AF/20/PO/1/Br/04	AF/20/PO/1/Pr/03	AF/20/PO/1/Pr/01	AF/20/PO/1/Zl/02
Untreated	77,18	76,48	74,03	76,65	77,35	81,8	82,8	77,7	75,8	71,5
CHR/F/PROTAZO 0,8 l/ha	76,78	77,2	74,35	77,28	77,7	81,6	82,8	77,8	76,7	72,2
CHR/F/PROTAZO 0,9 l/ha	77,75	77,23	73,13	76,65	78,38	82,7	82,6	77,4	75,3	71,7
CHR/F/PROTAZO 1,0 l/ha	77,23	77,48	73,48	76,53	70,13	82,3	81,9	76,8	75,6	71,9
Delaro 1 l/ha	76,76	77,05	74,5	76,43	76,53	81,9	82,4	77,6	76	72,3
Azoxin / Makler 1,0 l/ha	77,78	76,35	73,83	76,68	77,38	82,6	81,4	76,9	75,1	71,8
LSD	2,381	0,998	1,334	0,848	10,866	1,89	2,11	2,31	3,19	1,7

Winter wheat (HLW = weight 100 Ltr (hl)) – Czech Republic 2020

		winter wheat /HLW weight 100 Ltr (hl)		
Report code	SRCZ20-052-301FE	CHR_F_PROTAZO20_EFF01	SRCZ20-054-301FE	SRCZ20-055-301FE
Untreated	71,25	84,57	76,25	74,25
CHR/F/PROTAZO 0,8 l/ha	73,25	85,02	78,50	77,00
CHR/F/PROTAZO 0,9 l/ha	73,75	85,17	77,50	76,50
CHR/F/PROTAZO 1,0 l/ha	73,50	85,37	78,50	75,25
Delaro 1 l/ha	73,50	85,27	77,75	74,50
Amistar 1,0 l/ha	72,75	85,22	77,25	76,25
LSD	1,005	0,716	1,355	2,516

Winter wheat (HLW = weight 100 Ltr (hl)) – Germany 2020

Report code	SRDE20-101-301FE	SRDE20-102-301FE	SRDE20-103-301FE	SRDE20-104-301FE	SRDE20-105-301FE	SRDE20-106-301FE	CHR_F_PROTAZO_EFF5_DE14	CHR_F_PROTAZO_EFF5_DE15
Untreated	78,10	77,48	78,38	76,33	76,73	77,65	80,80	75,87
CHR/F/PROTAZO 0,8 l/ha	78,65	78,65	78,30	76,25	76,18	77,23	80,20	76,93
CHR/F/PROTAZO 0,9 l/ha	77,78	78,15	77,93	76,33	76,75	78,20	80,30	75,62
CHR/F/PROTAZO 1,0 l/ha	77,48	78,60	77,98	76,68	75,63	77,68	80,60	78,25
Delaro 1 l/ha, Proline 0,8 l/ha	78,65	78,70	78,68	76,73	76,20	77,25	80,50	77,71
Amistar 1,0 l/ha, Azbany 1,0 l/ha	79,33	78,78	78,73	76,83	76,25	77,33	80,50	75,75
LSD	1,088	1,356	0,929	0,644	1,326	1,106	0,500	3,049

table 3.4.3.1-2 The influence of the CHR/F/PROTAZO on quality of yield
Winter triticales (HLW = weight 100 Ltr (hl)) – Poland 2019

winter triticales /HLW weight 100 Ltr (hl)					
Report code	SRPL19-142-336FE	SRPL19-143-336FE	A.T/2019/032/PZO	A.T/2019/033/PZO	A.T/2019/034/PZO
Untreated	76,83	74	70,9	70,2	71,5
CHR/F/PROTAZO 0,8 l/ha	76,93	74,98	71,6	69,7	72,3
CHR/F/PROTAZO 0,9 l/ha	76,98	74,75	71,2	69,8	72,4
CHR/F/PROTAZO 1,0 l/ha	77,1	75,15	71,5	70,5	72,7
Delaro 1l/ha	76,78	74,8	71,5	70,7	72,1
Azoxin / Makler 1,0 l/ha	76,63	75,18	71,2	70,2	72,3
LSD	0,935	0,929	1,22	1,74	0,82

Winter triticales (HLW = weight 100 Ltr (hl)) – Czech Republic 2019

winter triticales /HLW weight 100 Ltr (hl)				
Report code	CZOR-SYT19-TTLSS-030RYM	CZOR-SYT19-TTLSS-051NEC	CHR_F_PROTAZO_CZ11	CZOR-SYT19-TTLSS-031RYM
Untreated	73,3	70,83	66,43	73,44
CHR/F/PROTAZO 0,8 l/ha	75,13	72,45	67,25	75,4
CHR/F/PROTAZO 0,9 l/ha	75,28	72,15	67,18	75,43
CHR/F/PROTAZO 1,0 l/ha	75,38	72,5	66,93	75,45
Delaro 1 l/ha	75,4	72,25	67,93	75,45
Amistar 1,0 l/ha	75,45	71,75	66,55	75,45
LSD	0,166	0,97	1,94	0,09

Winter triticale (HLW = weight 100 Ltr (hl)) – Poland 2020 a

winter triticale /HLW weight 100 Ltr (hl)							
Report code	A.T/2020/014/PZO	A.T/2020/015/PZO	A.T/2020/016/PZO	A.T/2020/017/PZO	A.T/2020/018/PZO	A.T/2020/019/PZO	A.T/2020/020/PZO
Untreated	75,83	64,88	69,35	65,4	71,75	68,18	76,83
CHR/F/PROTAZO 0,8 l/ha	75,38	65,93	69,65	66,33	72,43	68,65	76,15
CHR/F/PROTAZO 0,9 l/ha	75,58	66,68	69,03	67,35	72,38	68,58	75,45
CHR/F/PROTAZO 1,0 l/ha	75,58	67,75	69,33	67,7	72,4	68,95	75,8
Delaro 1l/ha	76	66,15	69,35	66,7	71,98	68,33	76,1
Azoxin / Makler 1,0 l/ha	75,85	64,43	69,45	66,73	72,08	68,23	76,08
LSD	1,046	1,165	0,777	1,24	0,966	0,976	1,64

Winter triticale (HLW = weight 100 Ltr (hl)) – Poland 2020 b

winter triticale /HLW weight 100 Ltr (hl)							
Report code	A.T/2020/021/PZO	AF/20/PszO/1/Pr/01	AF/20/PszO/1/Br/02	AF/20/PszO/1/Pr/03	AF/20/PszO/1/Br/04	AF/20/PszO/1/Zl/05	AF/20/PszO/1/Br/06
Untreated	67	65,9	59,1	70,8	57,7	71,6	81,8
CHR/F/PROTAZO 0,8 l/ha	68,83	68,8	59,4	71,1	60,1	71,3	81,6
CHR/F/PROTAZO 0,9 l/ha	67,6	69,9	60,2	71,1	59,9	72,4	82,7
CHR/F/PROTAZO 1,0 l/ha	67,28	68,8	59,4	72,9	60,8	73,4	82,3
Delaro 1l/ha	68,03	69,6	60,4	70,5	60,3	73,4	81,9
Azoxin / Makler 1,0 l/ha	68,58	68,8	58,4	70,2	59,7	71,8	82,6
LSD	1,176	3,42	1,68	5,26	2,45	2,53	1,89

Winter triticale (HLW = weight 100 Ltr (hl)) – Poland 2020 c

winter triticale /HLW weight 100 Ltr (hl)			
Report code	SRPL2020_404_336_FE	SRPL20-405-336FE	SRPL20-406-336FE
Untreated	72,50	57,98	69,00
CHR/F/PROTAZO 0,8 l/ha	74,75	58,78	69,70
CHR/F/PROTAZO 0,9 l/ha	74,50	58,65	70,60
CHR/F/PROTAZO 1,0 l/ha	74,75	57,93	71,10
Delaro 1l/ha	73,50	57,65	73,30
Azoxin / Makler 1,0 l/ha	73,25	58,95	69,90
LSD	2,148	1,488	6,55

Winter triticales (HLW = weight 100 Ltr (hl)) – Czech Republic 2020

winter triticales /HLW weight 100 Ltr (hl)			
Report code	SRCZ20-056-301FE	SRCZ20-057-301FE	SRCZ20-058-301FE
Untreated	74,63	74,25	65
CHR/F/PROTAZO 0,8 l/ha	74	75	65,5
CHR/F/PROTAZO 0,9 l/ha	74,25	74,5	65,5
CHR/F/PROTAZO 1,0 l/ha	74,63	75	65,25
Delaro 1 l/ha	74,25	74,75	64
Amistar 1,0 l/ha	74,63	75	65,75
LSD	0,949	0,841	1,042

Winter triticales (HLW = weight 100 Ltr (hl)) – Germany 2020

winter triticales /HLW weight 100 Ltr (hl)								
Report code	SRDE20-108-301FE	CHR-F-PROTAZO-EFF01-DE016	CHR_F_PROTAZO20_EFF3_DE17	CHR_F_PROTAZO20_EFF2_DE18	CHR_F_PROTAZO20_EFF2_DE19	CHR_F_PROTAZO20_EFF4_DE20	CHR_F_PROTAZO20_EFF4_DE21	CHR_F_PROTAZO20_EFF5_DE22
Untreated	68,10	74,9	68,83	73,54	68,9	70,6	72,3	76,1
CHR/F/PROTAZO 0,8l/ha	70,60	74,6	69,3	73,89	68,8	71,13	71	76,3
CHR/F/PROTAZO 0,9l/ha	71,25	74,5	70,03	74,11	71,2	70,45	71,5	76,4
CHR/F/PROTAZO 1,0l/ha	70,88	74,9	69,35	74,77	70,1	71,38	71,5	76,3
Delaro 1 l/ha, Proline 0,8 l/ha	71,13	74,3	69,7	75,08	70,1	71,05	70,2	75,9
Amistar 1,0 l/ha, Azbany 1,0 l/ha	69,98	74,6	69,03	73,89	70	70,33	71,2	76,4
LSD	1,273	0,75	2,273	2,243	1	1,993	1	0,69

table 3.4.3.1-3 The influence of the CHR/F/PROTAZO on quality of yield
Spring barley (HLW = weight 100 Ltr (hl)) – Poland 2019

Spring barley /HLW weight 100 Ltr (hl)								
Report code	SRPL19-301-336FE	SRPL19-302-336FE	SRPL19-303-336FE	SRPL19-304-336FE	SRPL19-305-336FE	SRPL19-306-336FE	SRPL19-307-336FE	SRPL19-308-336FE
Untreated	55,20	65,98	71,43	64,53	71,20	62,63	66,73	62,23
CHR/F/PROTAZO 0,6 l/ha	58,65	66,68	71,90	66,75	71,73	61,28	66,90	61,95
CHR/F/PROTAZO 0,8 l/ha	59,25	67,00	71,50	66,88	70,88	62,53	66,45	63,85
CHR/F/PROTAZO 1,0 l/ha	58,93	67,03	71,88	65,75	71,38	63,90	66,48	63,58
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	61,50	66,80	70,15	65,23	71,13	61,98	66,68	60,88
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	58,43	66,45	70,80	67,53	70,73	62,45	66,95	61,90
LSD	3,212	1,202	2,533	5,654	2,393	5,453	1,142	4,481

Spring barley (HLW = weight 100 Ltr (hl)) – Czech Republic 2019

Spring barley /HLW weight 100 Ltr (hl)					
Report code	CZOR-SYT19-HORVS-069NEC	CZOR-SYT19-HORVS-041RY	CZOR-SYT19-HORVS-070NEC	CZOR-SYT19-HORVS-042RYM	CZOR-SYT19-HORVS-043RYM
Untreated	71,05	80,30	72,33	80,30	80,31
CHR/F/PROTAZO 0,6 l/ha	71,70	81,15	72,53	81,15	81,15
CHR/F/PROTAZO 0,8 l/ha	72,93	81,35	72,90	81,35	81,35
CHR/F/PROTAZO 1,0 l/ha	73,00	81,35	73,05	81,35	81,35
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	72,43	81,43	72,55	81,43	81,43
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	73,45	81,35	73,18	81,35	81,35
LSD	1,893	0,230	1,420	0,230	0,204

Spring barley (HLW = weight 100 Ltr (hl)) – Poland 2020 a

Spring barley /HLW weight 100 Ltr (hl)							
Report code	AF/20/JJ/1/Zl/01	AF/20/JJ/1/Zl/02	AF/20/JJ/1/Br/03	AF/20/JJ/1/Pr/04	AF/20/JJ/1/Br/05	AF/20/JJ/1/Pr/06	AF/20/JJ/1/Br/07
Untreated	66,23	62,4	67,65	59,13	65,58	58,4	66,08
CHR/F/PROTAZO 0,6 l/ha	66,73	62,85	69,13	58,85	65,6	57,78	66,73
CHR/F/PROTAZO 0,8 l/ha	66,6	62,43	68,3	59,13	66,73	57,55	66,33
CHR/F/PROTAZO 1,0 l/ha	66,5	62,68	68,3	58,68	66,25	56,23	66,88
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	66,03	62,08	67,73	57,03	67,05	59,15	66,6
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	65,73	63,15	67,85	61,15	66,55	59,98	66,38
LSD	2,176	3,17	2,791	4,803	2,982	2,604	3,247

Spring barley (HLW = weight 100 Ltr (hl)) – Poland 2020 b

Spring barley /HLW weight 100 Ltr (hl)								
Report code	A.T/2020/86/JJ	A.T/2020/87/JJ	A.T/2020/88/JJ	A.T/2020/89/JJ	A.T/2020/090/JJ	A.T/2020/091/JJ	A.T/2020/092/JJ	A.T/2020/093/JJ
Untreated	64,65	58,55	53,3	62,98	65	63,78	59,85	58,58
CHR/F/PROTAZO 0,6 l/ha	64,88	60,13	53,35	62,98	65,2	64,03	58,1	63,98
CHR/F/PROTAZO 0,8 l/ha	67	60,6	57,13	63,3	65,43	65,45	58,58	64,35
CHR/F/PROTAZO 1,0 l/ha	64,78	60,25	56,35	63,93	65,5	63,65	58,97	64,55
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	65,65	57,13	58,58	62,73	65,5	64,35	58,35	62,95
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	63,9	60,18	56,78	63,43	65,75	65,18	59,23	63,18
LSD	1,426	1,573	6,186	1,413	1,375	1,753	2,417	3,214

Spring barley (HLW = weight 100 Ltr (hl)) – Czech Republic 2020

Spring barley /HLW weight 100 Ltr (hl)				
Report code	SRCZ20-066-301FE	SRCZ20-067-301FE	SRCZ20-064-301FE	CZOR-CPP20-HORVS-075SYT
Untreated	63,50	61,25	66,53	65,00
CHR/F/PROTAZO 0,6 l/ha	63,75	62,25	67,00	64,75
CHR/F/PROTAZO 0,8 l/ha	63,75	63,00	66,75	64,50
CHR/F/PROTAZO 1,0 l/ha	64,75	62,75	67,25	65,25
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	64,00	62,00	66,95	65,25
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 11/ha	63,50	62,75	66,70	65,25
LSD	1,428	1,231	1,313	0,899

Spring barley (HLW = weight 100 Ltr (hl)) – Germany 2020

Spring barley /HLW weight 100 Ltr (hl)					
Report code	SRDE20-151-301FE	CHR_F_PROTAZO20_EFF8_DE27	CHR_F_PROTAZO20_EFF8_DE28	CHR_F_PROTAZO20_EFF8_DE29	CHR_F_PROTAZO20_EFF8_DE30
Untreated	65,33	53,36	67,50	64,90	67,68
CHR/F/PROTAZO 0,6 l/ha	66,40	55,17	68,50	65,40	68,28
CHR/F/PROTAZO 0,8 l/ha	65,70	53,60	68,50	65,30	68,23
CHR/F/PROTAZO 1,0 l/ha	65,87	53,05	68,00	66,20	68,75
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	66,63	56,06	68,50	65,40	68,10
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 11/ha	66,20	51,90	68,70	65,70	68,53
LSD	1,577	2,746	0,440	0,470	0,957

Spring barley (HLW = weight 100 Ltr (hl)) – Poland 2021

Spring barley /HLW weight 100 Ltr (hl)				
Report code	A.T/2021/102/JJ	AF/21/JJ/19/ZI/1	AF/21/JJ/19/Br/2	AF/21/JJ/19/Ra/3
Untreated	64,95	64,13	62,30	65,65
CHR/F/PROTAZO 0,6 l/ha	66,10	64,78	63,58	66,55
CHR/F/PROTAZO 0,8 l/ha	66,18	65,20	63,08	66,25
CHR/F/PROTAZO 1,0 l/ha	65,88	61,75	64,08	65,53
Fandango 1 l/ha	65,93	61,28	61,83	66,15
Tazer 1,0 l/ha	66,15	64,58	61,13	64,60
LSD	1,592	1,295	1,783	2,588

table 3.4.3.1-4 The influence of the CHR/F/PROTAZO on quality of yield
Winter wheat thousand weight grain [g] – Poland 2019 a

winter wheat/ TKW (g)						
	A.T/2019/028/PO	A.T/2019/029/PO	A.T/2019/030/PO	A.T/2019/031/PO	SRPL19-146-336FE	SRPL19-143-336FE
Untreated	33,3	37,3	42,8	40,9	25,54	49,68
CHR/F/PROTAZO 0,8 l/ha	33,6	36,8	43	41,9	26,07	49,60
CHR/F/PROTAZO 0,9 l/ha	34,6	38,4	43,2	41,1	26,51	49,78
CHR/F/PROTAZO 1,0 l/ha	33,8	38,4	43,4	41,7	25,97	49,75
Delaro 1 l/ha	33,8	38,3	43,3	41,2	25,76	49,73
Azoxin / Makler 1,0 l/ha	33,2	36,5	42,3	41,3	25,76	49,48
LSD	2,47	3,75	1,16	1,17	3,228	0,396

Winter wheat thousand weight grain [g] – Poland 2019 b

	winter wheat/ TKW (g)						
	SRPL19-144-336FE	SRPL19-141-336FE	SRPL19-140-336FE	SRPL19-139-336FE	SRPL19-138-336FE	SRPL19-137-336FE	SRPL19-136-336FE
Untreated	32,53	30,00	41,35	37,36	50,13	35,82	34,69
CHR/F/PROTAZO 0,8 l/ha	38,73	31,19	42,30	37,07	51,01	36,53	38,98
CHR/F/PROTAZO 0,9 l/ha	37,45	31,80	42,23	37,07	51,69	35,60	39,24
CHR/F/PROTAZO 1,0 l/ha	38,15	31,96	42,05	37,65	51,68	36,64	39,30
Delaro 1 l/ha	39,65	31,68	42,48	37,75	51,55	35,72	39,73
Azoxin / Makler 1,0 l/ha	38,38	31,56	42,38	38,38	51,63	36,28	38,51
LSD	5,616	3,382	0,753	4,386	0,637	5,93	2,11

Winter wheat thousand weight grain [g] – Czech Republic 2019

	winter wheat/ TKW (g)							
Report code	SRCZ19-025-301FE	SRCZ19-023-301FE	SRCZ19-024-301FE	SRCZ19-029-301FE	SRCZ19-022-301FE	SRCZ19-026-301FE	SRCZ19-027-301FE	SRCZ19-030-301FE
Untreated	36,01	35,94	35,75	31,56	35,93	36,9	41,93	35,53
CHR/F/PROTAZO 0,8 l/ha	35,82	36,37	37,32	29,48	36,37	35,65	41,17	37,48
CHR/F/PROTAZO 0,9 l/ha	36,62	35,49	37,46	30,87	35,49	37,31	41,41	36,98
CHR/F/PROTAZO 1,0 l/ha	34,89	34,98	36,69	30,06	34,97	35,51	41,20	36,10
Delaro 1 l/ha	35,63	36,16	37,79	31,65	36,16	35,22	40,58	36,31
Amistar 1,0 l/ha	34,61	35,68	36,81	30,94	35,68	35,44	42,09	37,59
LSD	1,708	1,534	2,552	2,441	1,534	1,665	1,044	4,876

Winter wheat thousand weight grain [g] – Poland 2020

winter wheat/ TKW (g)										
Report code	A.T/2020/009/PO	A.T/2020/010/PO	A.T/2020/011/PO	A.T/2020/012/PO	A.T/2020/013/PO	AF/20/PO/1/Br/05	AF/20/PO/1/Br/04	AF/20/PO/1/Pr/03	AF/20/PO/1/Pr/01	AF/20/PO/1/Zl/02
Untreated	45,43	45,53	40,24	48,14	45,75	47,49	47,02	48,05	47,79	39,12
CHR/F/PROTAZO 0,8 l/ha	45,18	47,68	41,04	48,62	47,19	49,23	48,01	50,21	49,66	40,19
CHR/F/PROTAZO 0,9 l/ha	46,28	48,45	39,61	49,04	47,48	49,13	48,51	50,5	48,73	40,4
CHR/F/PROTAZO 1,0 l/ha	44,96	48,67	39,87	49,47	46,43	48,86	49,83	51,06	49,98	40,95
Delaro 1 l/ha	46,3	49,18	41,93	49,24	45,6	49,22	48,64	50,11	49,54	40,76
Azoxin / Makler 1,0 l/ha	45,35	46,55	39,7	50,21	44,81	48,49	48,1	50,68	49,01	40,76
LSD	3,813	2,399	1,356	3,752	5,412	2,017	1,731	2,398	1,636	2,327

Winter wheat thousand weight grain [g] – Czech Republic 2020

winter wheat/ TKW (g)				
Report code	SRCZ20-052-301FE	CHR_F_PROTAZO20_EFF01	SRCZ20-054-301FE	SRCZ20-055-301FE
Untreated	33,57	48,01	41,17	45,45
CHR/F/PROTAZO 0,8 l/ha	35,68	48,52	42,36	45,63
CHR/F/PROTAZO 0,9 l/ha	36,01	49,28	41,46	47,15
CHR/F/PROTAZO 1,0 l/ha	36,23	48,73	42,85	46,39
Delaro 1 l/ha	35,85	48,82	42,21	47,68
Amistar 1,0 l/ha	35,04	49,10	41,64	46,85
LSD	1,290	1,172	2,368	2,082

Winter wheat thousand weight grain [g] – Germany 2020

winter wheat/ TKW (g)								
Report code	SRDE20-101-301FE	SRDE20-102-301FE	SRDE20-103-301FE	SRDE20-104-301FE	SRDE20-105-301FE	SRDE20-106-301FE	CHR_F_PROTAZO_EFF5_DE14	CHR_F_PROTAZO_EFF5_DE15
Untreated	43,57	46,53	48,69	40,48	47,25	47,59	44,20	52,75
CHR/F/PROTAZO 0,8 l/ha	45,51	46,53	48,97	39,98	47,48	47,89	46,20	53,80
CHR/F/PROTAZO 0,9 l/ha	43,99	47,35	48,96	39,85	48,43	48,53	46,10	53,34
CHR/F/PROTAZO 1,0 l/ha	46,89	47,70	48,37	41,93	47,45	47,98	46,70	53,53
Delaro 1 l/ha, Proline 0,8 l/ha	43,95	47,28	48,85	39,05	47,70	49,46	46,20	52,89
Amistar 1,0 l/ha, Azbany 1,0 l/ha	46,64	47,18	48,49	41,38	47,78	46,50	46,90	53,35
LSD	3,277	1,390	1,338	2,730	1,524	2,461	1,490	1,449

table 3.4.3.1-5 The influence of the CHR/F/PROTAZO on quality of yield

Winter triticale thousand weight grain [g] – Poland 2019

winter triticale/ TKW (g)					
Report code	SRPL19-142-336FE	SRPL19-143-336FE	A.T/2019/032/PZO	A.T/2019/033/PZO	A.T/2019/034/PZO
Untreated	50,3	37,16	38,1	32,8	39,6
CHR/F/PROTAZO 0,8 l/ha	50,43	41,54	40,2	32,5	41,9
CHR/F/PROTAZO 0,9 l/ha	50,33	41,69	39,1	33,1	42
CHR/F/PROTAZO 1,0 l/ha	50,43	42,35	39,9	34,1	41,3
Delaro 1l/ha	50,4	42,54	37,6	33,8	41,7
Azoxin / Makler 1,0 l/ha	50,48	42,23	40,1	32,9	41
LSD	0,341	1,733	4,37	2,56	1,93

Winter tritcale thousand weight grain [g] – Czech Republic 2019

winter tritcale/ TKW (g)				
Report code	CZOR-SYT19-TTLSS-030RYM	CZOR-SYT19-TTLSS-051NEC	CHR_F_PROTAZO_CZ11	CZOR-SYT19-TTLSS-031RYM
Untreated	50,7	32,18	50,1	50,65
CHR/F/PROTAZO 0,8 l/ha	51,28	35,13	51,55	51,68
CHR/F/PROTAZO 0,9 l/ha	51,65	35,78	52,4	51,73
CHR/F/PROTAZO 1,0 l/ha	51,75	35,5	52,08	51,65
Delaro 1 l/ha	51,75	35,8	51,48	51,68
Amistar 1,0 l/ha	51,75	34,75	50,55	51,7
LSD	0,112	1,237	1,126	0,134

Winter tritcale thousand weight grain [g] – Poland 2020 a

winter tritcale/ TKW (g)							
Report code	A.T/2020/014/PZO	A.T/2020/015/PZO	A.T/2020/016/PZO	A.T/2020/017/PZO	A.T/2020/018/PZO	A.T/2020/019/PZO	A.T/2020/020/PZO
Untreated	48,91	39,15	45,63	34,13	41,98	41,88	47,56
CHR/F/PROTAZO 0,8 l/ha	49,22	39,42	43,99	34,51	43,9	43,36	49,96
CHR/F/PROTAZO 0,9 l/ha	49,02	40,34	44,78	34,98	42,21	42,52	48,05
CHR/F/PROTAZO 1,0 l/ha	49,34	41,89	44,78	35,24	43,15	43,47	49,09
Delaro 1l/ha	50,03	42,82	45,18	34,51	43,14	42,24	49,44
Azoxin / Makler 1,0 l/ha	49,33	40,12	44,26	35,61	43,45	41,66	49,73
LSD	1,668	2,845	1,833	4,065	2,743	1,502	2,275

Winter triticale thousand weight grain [g] – Poland 2020 b

Report code	winter triticale/ TKW (g)						
	A.T/2020/021/PZO	AF/20/PszO/1/Pr/01	AF/20/PszO/1/Br/02	AF/20/PszO/1/Pr/03	AF/20/PszO/1/Br/04	AF/20/PszO/1/Zl/05	AF/20/PszO/1/Br/06
Untreated	38,3	31,82	34,79	33,85	33,83	38,97	47,24
CHR/F/PROTAZO 0,8 l/ha	40,46	32,81	37,23	34,55	37,23	40,98	49,23
CHR/F/PROTAZO 0,9 l/ha	38,51	33,63	36,47	36,23	36,29	42,5	49,13
CHR/F/PROTAZO 1,0 l/ha	39,11	34,5	36,23	36,2	36,97	44,01	48,86
Delaro 1l/ha	39,95	33,75	36,42	35,15	36,7	43,75	49,22
Azoxin / Makler 1,0 l/ha	38,06	33,47	35,92	36,04	36,19	41,63	48,49
LSD	4,101	2,107	1,426	1,698	2,78	2,967	2,134

Winter triticale thousand weight grain [g] – Poland 2020 c

Report code	winter triticale/ TKW (g)		
	SRPL2020_404_336_FE	SRPL20-405-336FE	SRPL20-406-336FE
Untreated	41,92	30,05	41,6
CHR/F/PROTAZO 0,8 l/ha	41,16	29,85	42,5
CHR/F/PROTAZO 0,9 l/ha	41,40	31,13	43,4
CHR/F/PROTAZO 1,0 l/ha	41,20	31,60	41,3
Delaro 1l/ha	40,57	31,70	42,3
Azoxin / Makler 1,0 l/ha	42,09	31,58	43,3
LSD	1,030-1,042	1,458	2,23

Winter triticale thousand weight grain [g] – Czech Republic 2020

winter triticale/ TKW (g)			
Report code	SRCZ20-056-301FE	SRCZ20-057-301FE	SRCZ20-058-301FE
Untreated	44,32	43,78	33,84
CHR/F/PROTAZO 0,8 l/ha	46,26	44,91	35,26
CHR/F/PROTAZO 0,9 l/ha	45,89	44,13	36,29
CHR/F/PROTAZO 1,0 l/ha	46,08	44,8	35,23
Delaro 1 l/ha	45,62	44,26	34,1
Amistar 1,0 l/ha	45,22	44,59	34,29
LSD	2,248	1,201	2,403

Winter triticale thousand weight grain [g] – Germany 2020

winter triticale/ TKW (g)								
Report code	SRDE20-108-301FE	CHR-F-PROTAZO-EFF01-DE016	CHR_F_PROTAZO20_EFF3_DE17	CHR_F_PROTAZO20_EFF2_DE18	CHR_F_PROTAZO20_EFF2_DE19	CHR_F_PROTAZO20_EFF4_DE20	CHR_F_PROTAZO20_EFF4_DE21	CHR_F_PROTAZO20_EFF5_DE22
Untreated	51.13	44,5	42,95	49,06	43,2	42,65	42,8	47,7
CHR/F/PROTAZO 0,8l/ha	57.65	43,8	44,1	50,08	41	43,75	43,4	48
CHR/F/PROTAZO 0,9l/ha	58.10	43,6	43,9	50,76	44,2	43,7	46	47,2
CHR/F/PROTAZO 1,0l/ha	58.13	44	44,65	50,26	44,8	43,25	47,2	49,9
Delaro 1 l/ha, Proline 0.8 l/ha	57.00	43,7	44,7	50,36	44	46,7	44,6	46,9
Amistar 1,0 l/ha, Azbany 1.0 l/ha	56.35	44,4	44,15	49,85	42,4	44,65	44,2	48,3
LSD	2,621	1,39	1,882	1,616		3,597		1,37

table 3.4.3.1-6 The influence of the CHR/F/PROTAZO on quality of yield
Spring barley thousand weight grain [g] – Poland 2019

Spring barley/ TKW (g)								
Report code	SRPL19-301-336FE	SRPL19-302-336FE	SRPL19-303-336FE	SRPL19-304-336FE	SRPL19-305-336FE	SRPL19-306-336FE	SRPL19-307-336FE	SRPL19-308-336FE
Untreated	30,63	44,03	48,75	36,78	39,88	49,28	44,90	49,28
CHR/F/PROTAZO 0,6 l/ha	36,65	44,73	49,38	35,40	39,78	48,60	45,10	48,60
CHR/F/PROTAZO 0,8 l/ha	37,93	44,83	48,63	35,10	40,10	48,48	44,78	48,48
CHR/F/PROTAZO 1,0 l/ha	39,43	44,78	48,43	34,25	39,90	49,05	44,75	49,05
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	41,05	44,70	48,93	35,21	39,80	49,15	44,83	49,15
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	38,93	44,75	48,53	34,30	39,58	48,98	44,73	48,98
LSD	2,597	0,704	1,426	3,906	0,849	1,583	0,775	1,583

Spring barley thousand weight grain [g] – Czech Republic 2019

Spring barley/ TKW (g)					
Report code	CZOR-SYT19-HORVS-069NEC	CZOR-SYT19-HORVS-041RY	CZOR-SYT19-HORVS-070NEC	CZOR-SYT19-HORVS-042RYM	CZOR-SYT19-HORVS-043RYM
Untreated	51,23	50,10	48,10	50,10	50,20
CHR/F/PROTAZO 0,6 l/ha	53,53	52,65	49,78	52,65	52,70
CHR/F/PROTAZO 0,8 l/ha	53,58	52,75	52,60	52,75	52,75
CHR/F/PROTAZO 1,0 l/ha	54,90	52,75	52,05	52,75	52,75
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	52,78	52,75	49,23	52,75	52,75
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	54,30	52,75	52,50	52,75	52,75
LSD	1,846	0,161	1,836	0,161	0,146

Spring barley thousand weight grain [g] – Poland 2020 a

Spring barley/ TKW (g)								
Report code	AF/20/JJ/1/ZI/01	AF/20/JJ/1/ZI/02	AF/20/JJ/1/Br/03	AF/20/JJ/1/Pr/04	AF/20/JJ/1/Br/05	AF/20/JJ/1/Pr/06	AF/20/JJ/1/Br/07	A.T/2020/86/JJ
Untreated	49,81	49,49	40,84	40,99	43,79	40,86	41,1	46,74
CHR/F/PROTAZO 0,6 l/ha	52,42	51,85	45,19	43,18	46,48	42,05	44,04	47,45
CHR/F/PROTAZO 0,8 l/ha	51,84	52,02	43,63	43,47	46,01	42,3	44,12	46,47
CHR/F/PROTAZO 1,0 l/ha	52,03	51,67	45,12	43,19	46,59	42,05	44,82	47,95
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	50,94	50,95	44,68	42,95	46,41	42,41	44,05	48,61
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	51,11	51,62	44,41	43,8	45,92	41,42	44,02	48,51
LSD	1,361	2,105	2,439	2,297	2,588	1,315	3,073	2,748

Spring barley thousand weight grain [g] – Poland 2020 b

Spring barley/ TKW (g)							
Report code	A.T/2020/87/JJ	A.T/2020/88/JJ	A.T/2020/89/JJ	A.T/2020/090/JJ	A.T/2020/091/JJ	A.T/2020/092/JJ	A.T/2020/093/JJ
Untreated	42,59	43,22	46,01	45,26	47,17	42,46	43,47
CHR/F/PROTAZO 0,6 l/ha	45,62	48,6	48,75	48,72	46,01	41,36	47,51
CHR/F/PROTAZO 0,8 l/ha	46,51	48,41	47,58	46,24	46,98	42,06	46,71
CHR/F/PROTAZO 1,0 l/ha	47,08	46,71	48,45	45,12	46,69	42,1	47,04
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	43,92	47,79	46,84	46,83	46,17	42,51	45,46
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 1l/ha	46,05	46,52	47,12	46,75	44,53	42,35	46,05
LSD	2,499	4,042	2,774	1,989	3,953	1,776	2,53

Spring barley thousand weight grain [g] – Czech Republic 2020

Spring barley/ TKW (g)				
Report code	SRCZ20-066-301FE	SRCZ20-067-301FE	SRCZ20-064-301FE	CZOR-CPP20-HORVS-075SYT
Untreated	40,4	43,44	50,73	51,1
CHR/F/PROTAZO 0,6 l/ha	41,43	47,03	52,18	51,84
CHR/F/PROTAZO 0,8 l/ha	42,43	46,85	54,39	53,94
CHR/F/PROTAZO 1,0 l/ha	42,61	47,71	53,28	52,49
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	41,59	45,21	54,01	52,03
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 11/ha	39,94	45,88	54,06	52,01
LSD	2,386	3,163	2,515	1,654

Spring barley thousand weight grain [g] – Germany 2020

Spring barley/ TKW (g)					
Report code	SRDE20-151- 301FE	CHR_F_PROTAZO20_EFF8_DE27	CHR_F_PROTAZO20_EFF8_DE28	CHR_F_PROTAZO20_EFF8_DE29	CHR_F_PROTAZO20_EFF8_DE30
Untreated	51,12	49,11	50,05	49,1	51,43
CHR/F/PROTAZO 0,6 l/ha	52,91	52,56	51,45	50,4	51,7
CHR/F/PROTAZO 0,8 l/ha	51,76	51,55	49,05	50,8	50,65
CHR/F/PROTAZO 1,0 l/ha	52,23	51,27	51	50,1	50,9
Elatus Era11/ha /Fandango 11/ha / Proline 0,8l/ha	51,63	52,79	51,6	50	50,15
Azoxin / Makler/ Amistar 1,0l/ha / Tazer 1,0l/ha / Azbany 11/ha	52,28	50,74	53,15	51,3	49,95
LSD	1,931	0,723	2,753	1,460	2,018

Spring barley thousand weight grain [g] – Poland 2021

Spring barley/ TKW (g)				
Report code	A.T/2021/102/JJ	AF/21/JJ/19/ZI/1	AF/21/JJ/19/Br/2	AF/21/JJ/19/Ra/3
Untreated	39,23	33,90	38,10	33,10
CHR/F/PROTAZO 0,6 l/ha	41,73	35,40	40,50	34,30
CHR/F/PROTAZO 0,8 l/ha	40,33	36,50	39,00	33,50
CHR/F/PROTAZO 1,0 l/ha	40,38	32,60	40,80	34,60
Fandango 1 l/ha	41,88	32,90	38,40	34,10
Tazer 1,0 l/ha	41,15	34,80	37,00	33,80
LSD	2,581	2,270	2,050	1,070

table 3.4.3.1-7 The influence of the CHR/F/PROTAZO on quality of yield Winter oilseed rape thousand weight grain [g] – Poland 2019

winter oilseed rape/ TKW (g)				
Report code	A.T/2019/035/RZO	A.T/2019/036/RZO	A.T/2019/037/RZO	A.T/2019/038/RZO
Untreated	4,2	4,9	4,8	4,4
CHR/F/PROTAZO 0,8 l/ha	4,1	4,9	4,8	4,3
CHR/F/PROTAZO 0,9 l/ha	4,2	4,9	4,8	4,4
CHR/F/PROTAZO 1,0 l/ha	4	4,8	4,7	4,2
Toledo Extra 0,75 l/ha	4,1	4,8	4,8	4,2
Azoxin / Makler 1,0 l/ha	3,9	4,8	4,7	4,4
LSD	0,2	0,69	0,41	0,16

Winter oilseed rape thousand weight grain [g] – Czech Republic 2019

winter oilseed rape/ TKW (g)		
Report code	SRCZ19-028-301FE	CZOR-SYT19-BRSNN-088KUI
Untreated	3,49	4,54
CHR/F/PROTAZO 0,8 l/ha	4,07	4,45
CHR/F/PROTAZO 0,9 l/ha	3,8	4,46
CHR/F/PROTAZO 1,0 l/ha	3,79	4,49
Toledo Extra 0,75 l/ha	3,74	4,48
Amistar 1,0 l/ha	3,81	4,49
LSD	0,411	0,187

Winter oilseed rape thousand weight grain [g] – Poland 2020

winter oilseed rape/ TKW (g)						
Report code	A.T/2020/022/RZO	A.T/2020/023/RZO	A.T/2020/024/RZO	AF/20/RO/1/Pr/01	AF/20/RO/1/Pr/02	AF/20/RO/1/ZL/03
Untreated	4,96	5,94	4,75	5,3	5,2	4,9
CHR/F/PROTAZO 0,8 l/ha	4,84	6,4	4,61	5,4	5,3	4,9
CHR/F/PROTAZO 0,9 l/ha	4,75	6,34	4,54	5,3	5,4	4,8
CHR/F/PROTAZO 1,0 l/ha	4,73	6,28	4,72	5,5	5,5	4,8
Toledo Extra 0,75 l/ha	4,76	6,21	4,52	5,3	5,5	4,8
Azoxin / Makler 1,0 l/ha	4,47	6,11	4,32	5,3	5,3	4,7
LSD	0,485	0,615	0,518	0,33	0,28	0,43

Winter oilseed rape thousand weight grain [g] – Czech Republic 2020

winter oilseed rape/ TKW (g)			
Report code	SRCZ20-059-301FE	SRCZ20-060-301FE	SRCZ20-061-301FE
Untreated	4,46	5,90	5,15
CHR/F/PROTAZO 0,8 l/ha	4,80	6,49	5,53
CHR/F/PROTAZO 0,9 l/ha	4,77	6,85	5,23
CHR/F/PROTAZO 1,0 l/ha	4,67	6,34	5,40
Toledo Extra 0,75 l/ha	4,73	6,33	5,01
Amistar 1,0 l/ha	4,68	6,24	5,40
LSD	0,214	0,566	0,249

Winter oilseed rape thousand weight grain [g] – Germany 2020

winter oilseed rape/ TKW (g)						
Report code	SRDE20-110-301FE	SRDE20-111-301FE	SRDE20-112-301FE	SRDE20-113-301FE	CHR_F_PROTAZO20_EFF06_DE23	CHR_F_PROTAZO20_EFF07_DE24
Untreated	4,00	4,58	4,66	4,46	4,17	5,68
CHR/F/PROTAZO 0,8 l/ha	3,66	4,33	4,50	4,15	4,26	5,78
CHR/F/PROTAZO 0,9 l/ha	3,93	4,76	4,68	4,57	4,30	5,59
CHR/F/PROTAZO 1,0 l/ha	4,25	4,84	4,37	4,20	4,23	5,75
Toledo Extra 0,75 l/ha	3,90	4,55	4,75	4,39	4,32	5,57
Amistar 1,0 l/ha	3,36	4,73	4,50	4,43	4,34	5,69
LSD	0,994	0,714	0,707	0,612	0,197	0,290

table 3.4.3.1-8 The influence of the CHR/F/PROTAZO on quality of yield
Winter oilseed rape oil content [%] – Poland 2019

winter oilseed rape /OILCON (%)				
Report code	A.T/2019/035/RZO	A.T/2019/036/RZO	A.T/2019/037/RZO	A.T/2019/038/RZO
Untreated	40,3	41,2	41,1	43,1
CHR/F/PROTAZO 0,8 l/ha	40,6	41	40,8	42,6
CHR/F/PROTAZO 0,9 l/ha	40,4	41,1	40,6	42,4
CHR/F/PROTAZO 1,0 l/ha	40,6	41,4	40,2	42,6
Toledo Extra 0,75 l/ha	40,2	40,9	40,7	42,5
Azoxin / Makler 1,0 l/ha	39,7	41,7	41,2	42,4
LSD	0,88	1,25	0,79	1,15

Winter oilseed rape oil content [%] – Czech Republic 2019

winter oilseed rape /OILCON (%)		
Report code	SRCZ19-028-301FE	CZOR-SYT19-BRSNN-088KUJ
Untreated	38,18	39,8
CHR/F/PROTAZO 0,8 l/ha	39	40,1
CHR/F/PROTAZO 0,9 l/ha	38,75	39,9
CHR/F/PROTAZO 1,0 l/ha	38,6	40
Toledo Extra 0,75 l/ha	38,23	39,8
Amistar 1,0 l/ha	38,45	40,2
LSD	0,736	0,78

Winter oilseed rape oil content [%] – Poland 2020

winter oilseed rape /OILCON (%)						
Report code	A.T/2020/022/RZO	A.T/2020/023/RZO	A.T/2020/024/RZO	AF/20/RO/1/Pr/01	AF/20/RO/1/Pr/02	AF/20/RO/1/ZL/03
Untreated	68,38	66,48	68,25	41,3	41,1	37,9
CHR/F/PROTAZO 0,8 l/ha	68,08	66,38	68,45	41,1	41,6	38,1
CHR/F/PROTAZO 0,9 l/ha	66,9	65,95	67,93	41,8	42,4	37,1
CHR/F/PROTAZO 1,0 l/ha	67,78	66,18	68,18	41,9	41,4	38,5
Toledo Extra 0,75 l/ha	68,18	65,23	68,23	41,9	41,8	38
Azoxin / Makler 1,0 l/ha	68,1	66,2	68,63	40,9	41,2	38,1
LSD	1,791	0,67	1,136			

Winter oilseed rape oil content [%] – Czech Republic 2020

winter oilseed rape /OILCON (%)			
Report code	SRCZ20-059-301FE	SRCZ20-060-301FE	SRCZ20-061-301FE
Untreated	40,33	43,18	41,15
CHR/F/PROTAZO 0,8 l/ha	39,95	42,88	41,65
CHR/F/PROTAZO 0,9 l/ha	40,75	43,23	41,58
CHR/F/PROTAZO 1,0 l/ha	40,75	43,05	41,68
Toledo Extra 0,75 l/ha	40,48	43,15	40,90
Amistar 1,0 l/ha	40,48	43,08	41,20
LSD	0,936	0,886	0,635

Winter oilseed rape oil content [%] – Germany 2020

winter oilseed rape /OILCON (%)						
Report code	SRDE20-110-301FE	SRDE20-111-301FE	SRDE20-112-301FE	SRDE20-113-301FE	CHR_F_PROTAZO20_EFF06_DE23	CHR_F_PROTAZO20_EFF07_DE24
Untreated	42,00	45,48	45,33	44,60	43,68	41,30
CHR/F/PROTAZO 0,8 l/ha	42,53	45,38	45,68	44,50	43,68	41,30
CHR/F/PROTAZO 0,9 l/ha	40,55	44,93	45,73	44,50	43,65	41,30
CHR/F/PROTAZO 1,0 l/ha	41,48	44,85	45,33	43,05	43,83	41,25
Toledo Extra 0,75 l/ha	41,33	44,88	45,35	43,08	43,85	41,50
Amistar 1,0 l/ha	41,05	44,30	44,83	44,73	43,70	41,40
LSD	2,426	1,428	0,935	3,522	0,407	0,286

table 3.4.3.1-9 The influence of the CHR/F/PROTAZO on quality of yield
Winter wheat protein content [%] – Poland 2019 a

winter wheat /PROCON (%)						
Report code	A.T/2019/028/PO	A.T/2019/029/PO	A.T/2019/030/PO	A.T/2019/031/PO	SRPL19-146-336FE	SRPL19-143-336FE
Untreated	16,9	14,6	13,8	12,6	no data	23,3
CHR/F/PROTAZO 0,8 l/ha	17	14,4	13,8	12,4		24,43
CHR/F/PROTAZO 0,9 l/ha	16,8	14,1	13,8	12		24,65
CHR/F/PROTAZO 1,0 l/ha	17	15	13,6	12,4		24,43
Delaro 1 l/ha	16,9	15,2	13,6	12		24,83
Azoxin / Makler 1,0 l/ha	17,3	13,8	13,9	12,2		24,63
LSD	0,79	1,89	0,43	0,82		0,869

Winter wheat protein content [%] – Poland 2019 b

winter wheat /PROCON (%)							
Report code	SRPL19-144-336FE	SRPL19-141-336FE	SRPL19-140-336FE	SRPL19-139-336FE	SRPL19-138-336FE	SRPL19-137-336FE	SRPL19-136-336FE
Untreated	20,3	12,25	23,48	12,33	12,7	9,55	no data
CHR/F/PROTAZO 0,8 l/ha	19,7	12,33	24,2	12,4	12,78	9,5	
CHR/F/PROTAZO 0,9 l/ha	19,9	12,28	24,38	12,4	12,68	9,03	
CHR/F/PROTAZO 1,0 l/ha	19,73	12,33	24,3	12,35	12,6	9,63	
Delaro 1 l/ha	19,18	12,28	24,53	12,38	12,75	9,48	
Azoxin / Makler 1,0 l/ha	19,4	12,25	24,45	12,35	12,38	9,48	
LSD	2,125	0,369	0,583	0,298	0,485	0,866	

Winter wheat protein content [%] – Czech Republic 2019

winter wheat /PROCON (%)								
Report code	SRCZ19-025-301FE	SRCZ19-023-301FE	SRCZ19-024-301FE	SRCZ19-029-301FE	SRCZ19-022-301FE	SRCZ19-026-301FE	SRCZ19-027-301FE	SRCZ19-030-301FE
Untreated	15,15	15,45	15,18	13,05	15,5	15,08	14,05	13,50
CHR/F/PROTAZO 0,8 l/ha	15,58	15,18	15,45	13,08	15,43	15,95	13,90	12,90
CHR/F/PROTAZO 0,9 l/ha	15,23	15,35	15,75	12,45	15,83	15,48	13,70	13,70
CHR/F/PROTAZO 1,0 l/ha	14,85	15,35	15,38	13,18	16,08	16,23	13,83	13,40
Delaro 1 l/ha	15,55	15,5	15,48	13,48	15,53	15,45	13,63	13,30
Amistar 1,0 l/ha	15,95	15,55	15,18	13	16,15	15,6	14,05	13,30
LSD	0,887	0,752	0,809	1,423	1,198	1,197	0,533	1,180

Winter wheat protein content [%] – Poland 2020

winter wheat /PROCON (%)										
Report code	A.T/2020/009/PO	A.T/2020/010/PO	A.T/2020/011/PO	A.T/2020/012/PO	A.T/2020/013/PO	AF/20/PO/1/Br/05	AF/20/PO/1/Br/04	AF/20/PO/1/Pr/03	AF/20/PO/1/Pr/01	AF/20/PO/1/ZI/02
Untreated	15,28	11,18	12,83	13,18	15,85	23,1	23,6	23,8	22,2	24
CHR/F/PROTAZO 0,8 l/ha	15,73	11,7	12,68	12,95	15,6	22,9	23,9	24	22,7	24,3
CHR/F/PROTAZO 0,9 l/ha	15,28	11,25	12,88	13,38	15,05	23,7	24	24,1	22,5	23,4
CHR/F/PROTAZO 1,0 l/ha	15,78	11,5	13,03	13,15	15,55	22,1	24,6	24,3	22	24,4
Delaro 1 l/ha	15,53	11,3	12,78	13,18	16,18	24,6	24,2	24	21,9	24,7
Azoxin / Makler 1,0 l/ha	15,08	11,65	13	12,9	15,48	23,5	24,5	24,3	22	24,2
LSD	0,965	0,957	0,29	0,583	1,109					

Winter wheat protein content [%] – Czech Republic 2020

winter wheat /PROCON (%)				
Report code	SRCZ20-052-301FE	CHR_F_PROTAZO20_EFF01	SRCZ20-054-301FE	SRCZ20-055-301FE
Untreated	10,98	no data	12,20	28,73
CHR/F/PROTAZO 0,8 l/ha	10,45		12,55	28,93
CHR/F/PROTAZO 0,9 l/ha	10,39		12,34	26,38
CHR/F/PROTAZO 1,0 l/ha	10,54		12,35	29,10
Delaro 1 l/ha	10,45		12,55	28,23
Amistar 1,0 l/ha	10,32		12,32	28,68
LSD	0,406		0,272	2,615

Winter wheat protein content [%] – Germany 2020

winter wheat /PROCON (%)								
Report code	SRDE20-101-301FE	SRDE20-102-301FE	SRDE20-103-301FE	SRDE20-104-301FE	SRDE20-105-301FE	SRDE20-106-301FE	CHR_F_PROTAZO_EFF5_DE14	CHR_F_PROTAZO_EFF5_DE15
Untreated	11,80	13,13	14,60	10,90	15,13	16,08	9,80	15,23
CHR/F/PROTAZO 0,8 l/ha	12,78	12,85	15,28	11,50	15,08	16,40	10,00	15,70
CHR/F/PROTAZO 0,9 l/ha	12,40	12,98	14,95	11,03	15,23	16,15	9,80	15,48
CHR/F/PROTAZO 1,0 l/ha	13,35	13,00	15,13	11,15	15,10	16,10	9,90	15,43
Delaro 1 l/ha, Proline 0,8 l/ha	12,50	12,93	14,88	10,93	15,05	16,18	9,90	15,18
Amistar 1,0 l/ha, Azbany 1,0 l/ha	12,48	12,88	15,15	10,58	15,10	16,08	9,70	15,53
LSD	1,673	0,368	0,992	0,692	0,527	0,587	0,260	0,500

table 3.4.3.1-10 The influence of the CHR/F/PROTAZO on quality of yield
Winter triticales protein content [%] – Poland 2019

winter triticales /PROCON (%)					
Report code	SRPL19-142-336FE	SRPL19-143-336FE	A.T/2019/032/PZO	A.T/2019/033/PZO	A.T/2019/034/PZO
Untreated	no data	no data	9,9	13,8	9,8
CHR/F/PROTAZO 0,8 l/ha			9,5	14,2	9,7
CHR/F/PROTAZO 0,9 l/ha			10,3	13,9	9,3
CHR/F/PROTAZO 1,0 l/ha			10	13,9	9,4
Delaro 1 l/ha			10,1	14	9,5
Azoxin / Makler 1,0 l/ha			10	13,6	9,8
LSD			0,97	0,65	0,39

Winter triticales protein content [%] – Czech Republic 2019

winter triticales /PROCON (%)				
Report code	CZOR-SYT19-TTLSS-030RYM	CZOR-SYT19-TTLSS-051NEC	CHR_F_PROTAZO_CZ11	CZOR-SYT19-TTLSS-031RYM
Untreated	11,3	no data	10,5	11,38
CHR/F/PROTAZO 0,8 l/ha	11,4		10,55	11,55
CHR/F/PROTAZO 0,9 l/ha	11,38		10,77	11,58
CHR/F/PROTAZO 1,0 l/ha	11,43		10,64	11,53
Delaro 1 l/ha	11,43		10,77	11,73
Amistar 1,0 l/ha	11,4		10,81	11,65
LSD	0,15		0,402	0,246

Winter triticale protein content [%] – Poland 2020 a

winter triticale /PROCON (%)							
Report code	A.T/2020/014/PZO	A.T/2020/015/PZO	A.T/2020/016/PZO	A.T/2020/017/PZO	A.T/2020/018/PZO	A.T/2020/019/PZO	A.T/2020/020/PZO
Untreated	11,93	13,83	12,18	12,25	11,4	15,25	12,18
CHR/F/PROTAZO 0,8 l/ha	11,98	13,55	12,3	11,98	11,45	15,93	12,03
CHR/F/PROTAZO 0,9 l/ha	12,23	14,03	12,13	11,93	11,28	15,3	12,2
CHR/F/PROTAZO 1,0 l/ha	12,15	13,7	12,73	12,05	11,73	15,48	11,8
Delaro 1l/ha	11,9	13,85	12,75	11,9	11,55	15,28	11,8
Azoxin / Makler 1,0 l/ha	11,95	13,8	12,28	11,93	11,43	15,03	12,2
LSD	0,379	0,72	0,638	0,517	0,72	1,012	0,466

Winter triticale protein content [%] – Poland 2020 b

winter triticale /PROCON (%)							
Report code	A.T/2020/021/PZO	AF/20/PszO/1/Pr/01	AF/20/PszO/1/Br/02	AF/20/PszO/1/Pr/03	AF/20/PszO/1/Br/04	AF/20/PszO/1/Zl/05	AF/20/PszO/1/Br/06
Untreated	12,4	23,5	no data	23,2	21,9	22,2	23,2
CHR/F/PROTAZO 0,8 l/ha	12,4	23,8		23,3	22,2	21	21,4
CHR/F/PROTAZO 0,9 l/ha	12,15	23,3		23,5	22,6	21,3	20,3
CHR/F/PROTAZO 1,0 l/ha	12,1	23,1		23,8	22,9	22,5	21,5
Delaro 1l/ha	12,05	23,5		23,7	22,8	22,8	23,4
Azoxin / Makler 1,0 l/ha	12,53	23,6		23,8	22,8	22,8	23,8
LSD	0,49						

Winter triticale protein content [%] – Poland 2020 c

winter triticale /PROCON (%)			
Report code	SRPL2020_404_336_FE	SRPL20-405-336FE	SRPL20-406-336FE
Untreated	no data	12,65	no data
CHR/F/PROTAZO 0,8 l/ha		12,65	
CHR/F/PROTAZO 0,9 l/ha		12,60	
CHR/F/PROTAZO 1,0 l/ha		12,75	
Delaro 1l/ha		12,60	
Azoxin / Makler 1,0 l/ha		12,68	
LSD		0,275	

Winter triticale protein content [%] – Czech Republic 2020

winter triticale /PROCON (%)			
Report code	SRCZ20-056-301FE	SRCZ20-057-301FE	SRCZ20-058-301FE
Untreated	13,21	12,89	no data
CHR/F/PROTAZO 0,8 l/ha	13,48	12,87	
CHR/F/PROTAZO 0,9 l/ha	13,41	12,91	
CHR/F/PROTAZO 1,0 l/ha	13,15	12,69	
Delaro 1 l/ha	13,22	12,73	
Amistar 1,0 l/ha	13,27	12,77	
LSD	0,298	0,486	

Winter triticale protein content [%] – Germany 2020

winter triticale /PROCON (%)								
Report code	SRDE20-108-301FE	CHR-F-PROTAZO-EFF01-DE016	CHR_F_PROTAZO20_EFF3_DE17	CHR_F_PROTAZO20_EFF2_DE18	CHR_F_PROTAZO20_EFF2_DE19	CHR_F_PROTAZO20_EFF4_DE20	CHR_F_PROTAZO20_EFF4_DE21	CHR_F_PROTAZO20_EFF5_DE22
Untreated	10,75	11,1	11,18	13,03	11,35	10,95	11,3	11,7
CHR/F/PROTAZO 0,8l/ha	10,63	10,7	11,48	13,53	11,43	11,9	11,38	11,4
CHR/F/PROTAZO 0,9l/ha	10,73	11,4	11,8	13,15	11,45	11,68	11,65	11,5
CHR/F/PROTAZO 1,0l/ha	10,48	10,8	11,5	13,4	11,5	11,53	12,03	11,4
Delaro 1 l/ha, Proline 0,8 l/ha	10,60	11,2	11,83	13,18	11,98	11,65	11,65	11,3
Amistar 1,0 l/ha, Azbany 1,0 l/ha	10,50	11,5	11,88	13,33	12,2	11,83	12	11,3
LSD	0,39	0,8	0,693	0,325	0,705	0,943	0,792	0,36

table 3.4.3.1-10 The influence of the CHR/F/PROTAZO on quality of yield
Spring barley protein content [%] – Poland 2021

	Spring barley /PROCON (%)
Report code	A.T/2021/102/JJ
Untreated	14,08
CHR/F/PROTAZO 0,6 l/ha	13,68
CHR/F/PROTAZO 0,8 l/ha	14,05
CHR/F/PROTAZO 1,0 l/ha	14,23
Fandango 1 l/ha	14,15
Tazer 1,0 l/ha	14,20
LSD	0,665

table 3.4.3.1-11 The influence of the CHR/F/PROTAZO on quality of yield
Spring barley DON - deoxynivalenol level [ppm] – Poland 2021

Spring barley /DON - deoxynivalenol level (ppm)			
Report code	AF/21/JJ/19/Zl/1	AF/21/JJ/19/Br/2	AF/21/JJ/19/Ra/3
Untreated	485,00	576,00	598,00
CHR/F/PROTAZO 0,6 l/ha	156,00	285,00	279,00
CHR/F/PROTAZO 0,8 l/ha	92,00	146,00	198,00
CHR/F/PROTAZO 1,0 l/ha	84,00	115,00	146,00
Fandango 1 l/ha	91,00	152,00	207,00
Tazer 1,0 l/ha	101,00	128,00	211,00
LSD	-	-	-

Comments of zRMS:	<p>The applicant submitted 144 selectivity efficacy/phytotoxicity trials (43 for winter wheat, 39 for winter triticale, 41 for spring barley and 21 for winter oilseed rape) carried out in 2019, 2020 and 2021 at dose rates: 0,8; 0,9; 1,0 l/ha. For winter wheat, winter triticale, spring barley there were assessed the quality parameters: thousand grain weight [g], hectolitre of grain weight, protein content [%]. For winter oilseed rape thousand seed weight [g] and oil content [%] were assessed.</p> <p>Additionally, in 3 trials on spring barley a content of DON (a mycotoxin produced mainly by <i>Fusarium</i>) was checked. The dose rate 1,0 l/ha lowered the content of this mycotoxin about 5 times.</p> <p>In COMMISSION REGULATION (EC) No 1126/2007 of 28 September 2007 amending Regulation (EC) No 1881/2006 setting maximum levels for certain contaminants in foodstuffs as regards <i>Fusarium</i> toxins in maize and maize products the maximum level of DON was established and for cereals intended for direct human consumption, cereal flour, bran and germ as end product marketed for direct human consumption it amounts 750 ppm. The product effectively reduced content of this mycotoxins in barley. It is likely that it will also reduce the toxin content in other cereals as well.</p> <p>There were no negative effects on yield quality after the application of CHR/F/PROTAZO.</p>
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3.4.4 Effects on transformation processes (KCP 6.4.4)

Fungicides are usually considered with regards to their potential effect on transformation processes if applied close to harvest. EPPO PP 1/243 (1) Effects of plant protection products on transformation processes. The residue data Part B, Section 7 demonstrate that at the proposed application rates of CHR/F/PROTAZO residues above the LOQ are found in winter oilseed rape.

According Section B7:

a) For prothioconazole:

Residues are undetectable, data on no effect on taste in baking are not demanded

b) For azoxystrobin:

Data/information on processing studies were reviewed during the Annex I inclusion of Azoxystrobin were considered acceptable. No further studies have been performed.

Under conditions designed to mimic pasteurisation, baking, brewing, boiling and sterilization there was no significant hydrolysis of azoxystrobin following incubation at different pH values and temperatures. Azoxystrobin is stable under conditions representative of pasteurisation, baking, brewing, boiling and sterilisation and no additional metabolites are formed in processed commodities as compared to raw agricultural commodities. The definition of the residue in processed commodities as compared to raw agricultural commodities. The definition of the residue in processed crop commodities is azoxystrobin only.

Effects on residue levels have been investigated in studies on three crops, beans, barley and wheat – Three mass balance studies were conducted for the cooking and canning of beans. For barley two processes were investigated:

- Malting and brewing; one balance and three follow-up studies

- Production of pot barley; two balance and two follow-up studies

For wheat two sequential processes were investigated:

- Milling: one balance and three follow-up, followed by
- Baking: one balance and three follow-up

Processing factors (Annex IIA, point 6.5, Annex IIIA, point 8.4)

Bean processing studies were evaluated to support uses on cauliflower, broccoli, kale (leafy brassicas) and Brussels sprouts.

Crop / processed crop	Number of studies	Transfer factor	% Transference*
Beans with pods → tips	3	1.6	
Beans with pods → trimmed beans	3	0.41	
Beans with pods → blanched beans	3	<0.3	
Beans with pods → canned beans	3	0.42	
Beans with pods → cooked beans	3	<0.29	
Barley grain → cleaned grain	1	0.8	
Barley grain → malt	4	<0.19	
Barley grain → malt sprouts	1	0.4	
Barley grain → spent grain	3	0.61	
Barley grain → flocs	1	0.6	
Barley grain → wort	2	<0.35	
Barley grain → spent yeast	3	0.31	
Barley grain → young beer	2	<0.35	
Barley grain → beer	4	<0.23	
Barley grain → abrasion dust	4	3.25	
Barley grain → pot barley	4	<0.25	
Wheat → cleaned grain	2	0.42	
Wheat → offal/screenings	2	12.4	
Wheat → bran	4	1.67	
Wheat → flour type 550	4	0.45	
Wheat → wholemeal flour	4	0.68	

Comments of zRMS:	<p>Residues of prothioconazole are undetectable in cereals. What is more in accordance with the opinion in Section 7, “prothioconazole-desthio as the relevant residue for enforcement for the intended uses are below the trigger value of 0.1 mg/kg, no study investigating the nature of residues in processed commodities is required”.</p> <p>According to the EFSA Journal 2020;18(8):6231: <i>Several rotational crop field trials were evaluated in the framework of the peer review (United Kingdom, 2009). At harvest, azoxystrobin residues were expected to be below the LOQ (0.01 mg/kg) in all mature plant parts except in wheat forage and wheat straw where the highest residues were expected to be 0.05 mg/kg and 0.04 mg/kg, respectively. In accordance with the opinion in Section 7 presented results in studies showed no residues above the applicable MRLs.</i></p> <p>Taking into account above, data on effect on east in baking and malting/brewing are not demanded in that case.</p>
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3.4.5 Impact on treated plants or plant products to be used for propagation (KCP 6.4.5)

There is no information available pointing to presence of any limitations to using of CHR/F/PROTAZO in seed crops of winter wheat, winter triticale, winter oilseed rape, and spring barley.

In the course of studies carried out in Poland in the season of 2019, 2020 and 2021 on product CHR/F/PROTAZO the fungicide has not been observed to have any significant influence on yield.

The product may be used in seed crops of winter wheat, winter triticale, winter oilseed rape, and spring barley.

Comments of zRMS:	There is neither negative effects on yield after the application of CHR/F/PROTAZO nor phytotoxic effects are seen on crops. Impact on treated plants or plant products to be used for propagation is not expected after application of CHR/F/PROTAZO.
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Summary and conclusion

The submitted efficacy data (reports from 141 field trials) and additional information fulfill requirements and conditions determined in the following EPPO guidelines:

- PP 1/135 (3) Phytotoxicity assessment
 - PP 1/152 (3) Design and analysis of efficacy evaluation trials
 - PP 1/181 (3) Conduct and reporting of efficacy evaluation trials including good experimental practice
- They were carried out on the field in the conditions of natural agrofag infestation. The efficacy trials were concluded according to the EPPO standards:
- PP 1/78(3) Root, stem, foliar and pod diseases on oilseed rape
 - PP 1/26(4) Foliar and ear diseases on cereals
 - PP 1/28(3) Eyespot of cereals

The studies fulfill also requirements of the Commission Regulation (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards the data requirements for plant protection products.

The formulation of CHR/F/PROTAZO is suspension concentrate (SC) and it comprises active substance prothioconazole 175 g/l and azoxystrobin 200 g/l. The applicant submitted 141 reports in total (43 in winter wheat, 37 in winter triticale, 40 in spring barley, 19 in winter oilseed rape) showing the results in research into product efficacy carried out in 2019, 2020 and 2021 in winter wheat, winter triticale, spring barley and winter oilseed rape.

The obtained data in performed trials show that CHR/F/PROTAZO 375 SC provides benefits against the most important diseases in winter wheat, winter triticale, spring barley and winter oilseed rape as shown in the table below.

The following table describes the effectiveness of diseases

- ≥ 80% – Effectively controlled (E)
- 60 – 80% – Medium effectively controlled (ME)
- 40 – 60% – Limiting the number of pest (R)
- < 40% – Not effective (N)

winter wheat

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Average (%)	Efficacy
				stem	leaf	plant	ear	
1.	CHR/F/PROTAZO 375 SC 0.8 L/ha	PSDCHE	<i>Oculimacula yallundae</i>	63,99				ME
		FUSASP	<i>Fusarium sp.</i>	56,67				ME

		ERYSGR	<i>Blumeria graminis - one application</i>		60,62	58,78		R
		ERYSGR	<i>Blumeria graminis - two application</i>		59,60	68,37		ME
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		64,99	69,63		ME
		PUCCRE	<i>Puccinia recondita</i>		57,13	78,60		ME
		PUCCSI	<i>Puccinia striiformis tritici</i>		65,78			ME
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		61,68	63,84		ME
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		62,61	54,57		R
		FUSACU	<i>Fusarium culmorum</i>				66,82	ME
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				65,68	ME
		RHIZCE	<i>Rhizoctonia cerealis</i>	61,47				ME
2.	CHR/F/PROTAZO 375 SC 0,9 L/ha	PSDCHE	<i>Oculimacula yallundae</i>	71,97				ME
		FUSASP	<i>Fusarium sp.</i>	67,05				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		70,55	69,15		ME
		ERYSGR	<i>Blumeria graminis - two application</i>		72,63	76,37		ME
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		76,25	79,23		ME
		PUCCRE	<i>Puccinia recondita</i>		75,75	100,00		E
		PUCCSI	<i>Puccinia striiformis tritici</i>		77,72			ME
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		70,87	72,40		ME
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		71,45	62,30		ME
		FUSACU	<i>Fusarium culmorum</i>				73,26	ME
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				79,96	ME
		RHIZCE	<i>Rhizoctonia cerealis</i>	71,83				ME
3.	CHR/F/PROTAZO 375 SC 1,0 L/ha	PSDCHE	<i>Oculimacula yallundae</i>	80,74				E
		FUSASP	<i>Fusarium sp.</i>	79,76				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		79,12	76,83		ME
		ERYSGR	<i>Blumeria graminis - two application</i>		81,59	78,72		E
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		87,35	90,17		E
		PUCCRE	<i>Puccinia recondita</i>		87,92	100,00		E
		PUCCSI	<i>Puccinia striiformis tritici</i>		89,58			E
		SEPTTR	<i>Zymoseptoria tritici - one application</i>		79,68	77,08		ME
		SEPTTR	<i>Zymoseptoria tritici - two application</i>		79,55	67,35		ME
		FUSACU	<i>Fusarium culmorum</i>				85,92	E
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				88,78	E
		RHIZCE	<i>Rhizoctonia cerealis</i>	81,77				E

winter triticales

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Average (%)	Efficacy
				stem	leaf	plant	ear	
1.	CHR/F/PROTAZO 375 SC 0,8 L/ha	FUSASP	<i>Fusarium sp.</i>	60,22				ME
		ERYSGR	<i>Blumeria graminis - one application</i>		72,72	71,43		ME
		ERYSGR	<i>Blumeria graminis - two application</i>		72,20	79,30		ME
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		73,12	63,83		ME

		PUCCRE	<i>Puccinia recondita</i>		80,42	78,60		ME
		PUCCSI	<i>Puccinia striiformis tritici</i>		59,71		89,01	ME
		SEPTTR	<i>Zymoseptoria tritici</i> - one application		69,07	61,05		ME
		SEPTTR	<i>Zymoseptoria tritici</i> - two application		75,36	70,58		ME
		RHYNSE	<i>Rhynchosprum secalis</i>		73,92	62,98		ME
		FUSACU	<i>Fusarium culmorum</i>				78,26	ME
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				74,60	ME
		RHIZCE	<i>Rhizoctonia cerealis</i>	77,85				ME
2.	CHR/F/PROTAZO 375 SC 0,9 L/ha	FUSASP	<i>Fusarium sp.</i>	63,90				ME
		ERYSGR	<i>Blumeria graminis</i> - one application		80,40	81,20		E
		ERYSGR	<i>Blumeria graminis</i> - two application		80,03	84,17		E
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		83,62	79,37		E
		PUCCRE	<i>Puccinia recondita</i>		89,06	100,00		E
		PUCCSI	<i>Puccinia striiformis tritici</i>		73,95		91,04	E
		SEPTTR	<i>Zymoseptoria tritici</i> - one application		77,13	73,52		ME
		SEPTTR	<i>Zymoseptoria tritici</i> - two application		83,44	80,63		E
		RHYNSE	<i>Rhynchosprum secalis</i>		80,14	73,35		ME
		FUSACU	<i>Fusarium culmorum</i>				85,88	E
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				80,02	E
		RHIZCE	<i>Rhizoctonia cerealis</i>	77,85				ME
3.	CHR/F/PROTAZO 375 SC 1,0 L/ha	FUSASP	<i>Fusarium sp.</i>	71,92				ME
		ERYSGR	<i>Blumeria graminis</i> - one application		83,98	85,20		E
		ERYSGR	<i>Blumeria graminis</i> - two application		86,90	93,27		E
		PYRNTR	<i>Pyrenophora tritici-repentis</i>		91,96	87,23		E
		PUCCRE	<i>Puccinia recondita</i>		93,43	100,00		E
		PUCCSI	<i>Puccinia striiformis tritici</i>		84,17		95,32	E
		SEPTTR	<i>Zymoseptoria tritici</i> - one application		85,03	83,67		E
		SEPTTR	<i>Zymoseptoria tritici</i> - two application		87,21	88,68		E
		RHYNSE	<i>Rhynchosprum secalis</i>		87,08	83,33		E
		FUSACU	<i>Fusarium culmorum</i>				90,50	E
		LEPTNO	<i>Septoria nodorum/Phaeosphaeria nodorum</i>				87,72	E
		RHIZCE	<i>Rhizoctonia cerealis</i>	87,05				E

Spring barley

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Efficacy
				leaf	plant	ear	
1.	CHR/F/PROTAZO 375 SC 0,8 L/ha	PUCCHD	<i>Puccinia hordei</i>	80,42			E
		PYRNTE	<i>Pyrenophora teres</i>	65,18	66,06		ME
		ERYSGR	<i>Blumeria graminis</i>	71,87	69,70		ME
		RHYNSE	<i>Rhynchosprum secalis</i>	73,91	66,20		ME
		FUSACU	<i>Fusarium culmorum</i>			69,04	ME
		RAMUCC	<i>Ramularia collo-cygni</i>	39,67			N

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Efficacy
2.	CHR/F/PROTAZO 375 SC 0,9 L/ha	PUCCHD	<i>Puccinia hordei</i>	88,91			E
		PYRNTE	<i>Pyrenophora teres</i>	76,18	75,42		ME
		ERYSGR	<i>Blumeria graminis</i>	82,78	81,97		E
		RHYNSE	<i>Rhynchosporium secalis</i>	82,70	76,95		ME
		FUSACU	<i>Fusarium culmorum</i>			80,70	E
		RAMUCC	<i>Ramularia collo-cygni</i>	55,66			R
3.	CHR/F/PROTAZO 375 SC 1,0 L/ha	PUCCHD	<i>Puccinia hordei</i>	93,48			E
		PYRNTE	<i>Pyrenophora teres</i>	83,23	84,60		E
		ERYSGR	<i>Blumeria graminis</i>	88,12	90,23		E
		RHYNSE	<i>Rhynchosporium secalis</i>	87,29	83,50		E
		FUSACU	<i>Fusarium culmorum</i>			89,03	E
		RAMUCC	<i>Ramularia collo-cygni</i>	64,37			ME

Winter oilseed rape

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Efficacy
				stem	leaf	pod	
1.	CHR/F/PROTAZO 375 SC 0,8 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	70,72			ME
		ALTEBA	<i>Alternaria brassicae</i>		87,72	68,33	ME
		VERTLO	<i>Verticillium longisporum</i>	30,94			N
		BOTRCI	<i>Botrytis cinerea</i>			68,70	ME
2.	CHR/F/PROTAZO 375 SC 0,9 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	82,23			E
		ALTEBA	<i>Alternaria brassicae</i>		85,87	76,42	E
		VERTLO	<i>Verticillium longisporum</i>	35,79			N
		BOTRCI	<i>Botrytis cinerea</i>			74,82	ME
3.	CHR/F/PROTAZO 375 SC 1,0 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	88,32			E
		ALTEBA	<i>Alternaria brassicae</i>		91,90	83,86	E
		VERTLO	<i>Verticillium longisporum</i>	51,34			R
		BOTRCI	<i>Botrytis cinerea</i>			81,48	E

Fungicide CHR/F/PROTAZO has demonstrated good crop tolerance to winter wheat, winter triticale, spring barley and winter oilseed rape. Therefore concluded that CHR/F/PROTAZO is safe usage at proposed rate and this support the label claim for the use in winter wheat, winter triticale, spring barley and winter oilseed rape.

Undesirable effects are not expected on succeeding crops, adjacent crop, part of plants used for propagating purposes and beneficial organisms.

According to the above, the plant protection product CHR/F/PROTAZO 375 SC can be approved to the market and use in Poland and Czech Republic according to proposed range of use – GAP

Based on submitted data the following regulation on the label is proposed:

Poland, Czech Republic

Winter wheat, winter triticale, spring barley and winter oilseed rape:

Recommended dose at:

- winter wheat: once a season CHR/F/PROTAZO 1,0 l/ha at BBCH 25-69 or twice per season CHR/F/PROTAZO 2 x 1,0 l/ha at A: BBCH 31-39, B: BBCH 49-59,
- winter triticale: once a season CHR/F/PROTAZO 1,0 l/ha at BBCH 25-69 or twice per season CHR/F/PROTAZO 2 x 1,0 l/ha at A: BBCH 31-39, B: BBCH 49-59,
- spring barley: once a season CHR/F/PROTAZO 1,0 l/ha at BBCH 49-51 or twice per season CHR/F/PROTAZO 2 x 1,0 l/ha at A: BBCH 29-37, B: BBCH 49-59,
- winter oilseed rape: once a season CHR/F/PROTAZO 1,0 l/ha at BBCH 59-69.

Recommended volume of water 200-300 l/ha

Recommended medium droplet spraying

The product CHR/F/PROTAZO should be use once or twice per season at spring post – emergence. To avoid resistance, products contain active substance with the same group shouldn't be used year after year on the same field.

Use of CHR/F/PROTAZO 375 SC according to the proposed GAP does not represent a hazard to rotational crops and does not justify a specific labelling. CHR/F/PROTAZO is not persistent in soil nor is it taken up by succeeding crops.

3.5 Observations on other undesirable or unintended side-effects (KCP 6.5)

3.5.1 Impact on succeeding crops (KCP 6.5.1)

Detailed studies on the possible adverse effects to succeeding crops are submitted and summarised in Part B, Section 7 (Residues).

a) For prothioconazole:

Magnitude of residues in representative succeeding crops

The crops under consideration can be grown in rotation.

Considering available data dealing with nature of residues (see 7.2.2.2 Part B, Section 7), no study dealing with magnitude of residues in succeeding crops is needed

b) For azoxystrobin:

Data/information on residues in succeeding crops were reviewed during the Annex I inclusion process and were considered to be acceptable and no further data have been generated. Three separate studies were carried out using ¹⁴C-labelled azoxystrobin in either the cyanophenyl-, pyrimidinyl- or phenylacrylate ring to study the metabolism of azoxystrobin in succeeding crops. The rotational crops studies were radish, lettuce and wheat. Based on three studies available the identification and the behaviour of breakdown and reaction products and of metabolites in rotational crops were cleared up. The metabolism of azoxystrobin in succeeding crops is almost similar for all the analysed crops and also similar to that observed in the primary crops.

The three field rotational crop studies conducted in the USA and summarised in Evans, P 2009 were all conducted at exaggerated rates (compared with the proposed use pattern of azoxystrobin in cereals and brassicae in the EU).

The RMS concludes that the field rotational crop studies provide sufficient evidence to demonstrate that relevant residues (with reference to SANCO 7254) are not present and none of the already established MRLs will be exceeded as a result of the cultivation of rotational crops.

Residues of azoxystrobin from field rotational crops

Crop Type	Crop (part)	Trial	Highest Residue Found (mg/kg)*	Application Rate (g/ha)*	Field-rate residue** (mg/kg)
Leafy vegetable	Mustard Greens	04-IL-95-521	<0.01	896	<0.01
		01-NC-95-522	<0.01	896	<0.01
		05-MS-95-526	<0.01	1792	<0.01
		01-NC-95-527	<0.01	1792	<0.01
	Leaf Lettuce	E5-FR-002-01	<0.01	2240	<0.01
		W2-FR-004/01/005-01	0.02	2240	<0.01
Root vegetable	Radish Tops	04-IL-95-521	<0.01	896	<0.01
	Turnip Tops	01-NC-95-522	<0.01	896	<0.01
		05-MS-95-526	<0.01	1792	<0.01
		01-NC-95-527	<0.01	1792	<0.01
	Beet Tops	E5-FR-002-01	<0.01	2240	<0.01
		W2-FR-004/01/005-01	0.02	2240	<0.01
Root vegetable	Radish Roots	04-IL-95-521	<0.01	896	<0.01
	Turnip Roots	01-NC-95-522	<0.01	896	<0.01
		05-MS-95-526	<0.01	1792	<0.01
		01-NC-95-527	<0.01	1792	<0.01
	Beet Roots	E5-FR-002-01	<0.01	2240	<0.01
		W2-FR-004/01/005-01	0.02	2240	<0.01

Comments of zRMS:	Prothioconazole and azoxystrobin are well-known fungicides, which have been used for many years in wide cropping situations. No particular problem linked to prothioconazole and azoxystrobin uses in succeeding crops has been reported when products have been used in accordance with the label recommendations. In addition, no phytotoxic or other adverse effects were observed at the recommended dose rate during efficacy trials reported in this document.
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3.5.2 Impact on other plants including adjacent crops (KCP 6.5.2)

The risk assessment is based on the “Guidance Document on Terrestrial Ecotoxicology”, (SANCO/10329/2002 rev.2 final, 2002). It is restricted to off-field situations, as non-target plants are non-crop plants located outside the treated area. To achieve a concise risk assessment, the risk envelope approach is applied.

Table 3.5-1: Assessment of the risk for non-target plants due to the use of CHR/F/PROTAZO in cereals (drift rate: 2.77%) – risk envelope cover: oilseed rape, mustard, breadseed poppy, ornamentals, tobacco, soya, sunflower

Intended use				
Active substance/product		CHR/F/PROTAZO		
Application rate (g/ha)		2 × 1121		
MAF		1.7		
Test species	ER ₅₀ (g/ha)	Drift rate	PER _{off-field} (g/ha)	TER criterion: TER ≥ 5
Helianthus annuus	2242	0.0238	45.36	49.43
Brassica oleracea var. capitata	2242	0.0238	45.36	49.43
Pisum sativum	2242	0.0238	45.36	49.43

Daucus carota	2242	0.0238	45.36	49.43
Lolium perenne	2242	0.0238	45.36	49.43
Avena sativa	2242	0.0238	45.36	49.43
Helianthus annuus	747	0.0238	45.36	16.47
Brassica oleracea var. capitata	2242	0.0238	45.36	49.43
Pisum sativum	2242	0.0238	45.36	49.43
Daucus carota	2242	0.0238	45.36	49.43
Lolium perenne	2242	0.0238	45.36	49.43
Avena sativa	2242	0.0238	45.36	49.43

MAF: Multiple application factor; PER: Predicted environmental rate; TER: toxicity to exposure ratio. TER values shown in bold fall below the relevant trigger.

Calculations for cereals covered calculation for oilseed rape, mustard, soya, sunflower, breadseeds poppy, tobacco and ornamentals. Calculation for forestry tree covered calculation for Salix and Wicker.

Table 3.5-2: Assessment of the risk for non-target plants due to the use of CHR/F/PROTAZO in cereals (drift rate: 2.77%) – risk envelope cover: oilseed rape, mustard, breadseed poppy, ornamentals, tobacco, soya, sunflower

Intended use		CHR/F/PROTAZO		
Active substance/product				
Application rate (g/ha)				
MAF				
		2 × 1121		
		1.7		
Test species	ER₅₀ (g/ha)	Drift rate	PER_{off-field} (g/ha)	TER criterion: TER ≥ 5
Helianthus annuus	2242	0.0723	137.78	16.27
Brassica oleracea var. capitata	2242	0.0723	137.78	16.27
Pisum sativum	2242	0.0723	137.78	16.27
Daucus carota	2242	0.0723	137.78	16.27
Lolium perenne	2242	0.0723	137.78	16.27
Avena sativa	2242	0.0723	137.78	16.27
Helianthus annuus	747	0.0723	137.78	5.42

Brassica oleracea var. capitata	2242	0.0723	137.78	16.27
Pisum sativum	2242	0.0723	137.78	16.27
Daucus carota	2242	0.0723	137.78	16.27
Lolium perenne	2242	0.0723	137.78	16.27
Avena sativa	2242	0.0723	137.78	16.27

MAF: Multiple application factor; PER: Predicted environmental rate; TER: toxicity to exposure ratio. TER values shown in bold fall below the relevant trigger

Based on the predicted rates of CHR/F/PROTAZO 375 SC in off-field areas, the TER values describing the risk for non-target plants following exposure to CHR/F/PROTAZO 375 SC according to the GAP of the formulation CHR/F/PROTAZO 375 SC achieve the acceptability criteria without buffer zone and risk mitigation.

Comments of zRMS:	No impact on other plants including adjacent crops is expected when product will be applied according to the GAP table.
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Tank cleaning

Cleaning of equipment should be conducted according to the following procedure:

- Immediately after spraying drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
- Rinse inside of tank with clean water and flush through boom and hoses using at least one tenth of the spray tank volume. Drain completely.
- Fill the tank with clean water and add one of the cleaning agents recommended for clean-up of spraying equipment. Agitate for a minimum of 10 min. and then flush the boom and hoses with the cleaning solution. Nozzles and filters should be removed and cleaned up separately with a recommended cleaning agent.
- Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely.
- CHR/F/PROTAZO is non-corrosive to equipment, non-flammable and non-volatile.

3.5.3 Effects on beneficial and other non-target organisms (KCP 6.5.3)

Detailed studies on the possible adverse effects to beneficial organisms are submitted and summarised in Part B, Section 9 (Ecotoxicology).

Comments of zRMS:	No effects on beneficial or other non-target organisms were observed in efficacy trials carried out in winter wheat, winter triticale, spring barley and winter oilseed rape.
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Compatibility with current management practices including IPM

Not applicable

Summary and conclusion

Not applicable

3.6 Other/special studies

Comments of zRMS:	The Applicant has presented document – „ COMPARISON OF CLIMATIC AND AGRICULTURAL CONDITIONS IN POLAND AND THE CZECH REPUBLIC IN REFERENCE TO REGISTRATION OF PLANT PROTECTION PRODUCT CHR/F/PROTAZO ” where the climatic and agricultural conditions of Poland and the Czech Republic has been compared to support data for PL with data conducted in CZ. The document has presented high similarities in many elements of climatic and agricultural conditions (yearly temperature, pest problems, development phases of cereals). Only average monthly precipitation in Poland and in the Czech Republic is slightly different. There is slightly more precipitation in the Czech Republic in the first half of the year and the situation changes in the second half of the year. It may be stated that the precipitation conditions are more challenging for fungicide performance in CZ than in PL, at the beginning of the season. To sum up it can be concluded that efficacy data from CZ can be supportive for PL in terms of efficacy and phytotoxicity assessment.
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3.7 List of test facilities including the corresponding certificates

Table 3.7-1: List of test facilities

Test facility	Address	Certificate (Yes or No)
A.T Sp. z o.o.	ul. Przemysłowa 3, 88-300 Mogilno, Poland	Yes
SynTech Research Poland Sp. z o.o.	ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	Yes
Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department	ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Yes
SynTech Research Czech s.r.o.	Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Yes
ZS Nechanice	Štolbova 319, 503 15 Nechanice, Czech Republic	Yes
SynTech Research Germany	Loofter Str. 9, 25593 Christinenthal, Germany	Yes
Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche	Bamberger Straße 50 – 97359 Schwarzach, Germany	Yes
ZS Krásné Údolí	Krásné Údolí 141, 364 01 Toužim, Czech Republic	Yes
Zkušební stanice Rýmařov, s.r.o.	8.května 61, 795 01 Rýmařov, The Czech Republic	Yes
Zkušební stanice Kluky spol. s r.o.	398 19 Kluky/Pisek, Czech Republic	Yes

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	Data Vertebrate study Y/N	Owner
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Syntech Research Sp. z o.o. ul. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-301-336FE GEP - yes Unpublished	N	Chemiról
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Syntech Research Sp. z o.o. ul. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-302-336FE GEP - yes Unpublished	N	Chemiról
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Syntech Research Sp. z o.o. ul. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-303-336FE GEP - yes Unpublished	N	Chemiról
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Syntech Research Sp. z o.o. ul. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-304-336FE GEP - yes Unpublished	N	Chemiról
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Syntech Research Sp. z o.o. ul. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-305-336FE GEP - yes Unpublished	N	Chemiról
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Syntech Research Sp. z o.o.	N	Chemiról

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			ul. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-306-336FE GEP - yes Unpublished		
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Syntech Research Sp. z o.o. ul. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-307-336FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	. Zdzisław Jaskólski	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Syntech Research Sp. z o.o. ul. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-308-336FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Jan Čáp	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Zkusebni stanice Nechanice, s.r.o. Stolbova 319 503 15 Nechanice Czech Republic Report no.: CZOR-SYT19-HORVS-069NEC / CHR_F_PROTAZO_CZ015 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Jan Čáp	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Zkusebni stanice Nechanice, s.r.o. Stolbova 319 503 15 Nechanice Czech Republic Report no.: CZOR-SYT19-HORVS-041RY / CHR_F_PROTAZO_CZ16 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Jan Čáp	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in sping barley. Zkusebni stanice Nechanice, s.r.o. Stolbova 319 503 15 Nechanice Czech Republic Report no.: CZOR-SYT19-HORVS-070NEC / CHR_F_PROTAZO_CZ017 GEP - yes	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Unpublished		
KCP 6 KCP 6.2	Jan Čáp	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in spring barley. Zkusebni stanice Nechanice, s.r.o. Stolbova 319 503 15 Nechanice Czech Republic Report no.: CZOR-SYT19-HORVS- 42RYM / CHR_F_PROTAZO_CZ18 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Jan Čáp	2019	Efficacy of prothioconazole and azoxystrobin CHR/F/PROTAZO in spring barley. Zkusebni stanice Nechanice, s.r.o. Stolbova 319 503 15 Nechanice Czech Republic Report no.: CZOR-SYT19-HORVS- 43RYM / CHR_F_PROTAZO_CZ20 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Petr Smahel	2020	Evaluation of the efficacy of prothioconazol + azoxystrobin CHR/F/PROTAZO 375 SC in spring barley, Czech Republic 2020. SynTech Research Czech s.r.o. Horní Kounice 1 671 40 Horní Kounice, Czech Republic Report no.: SRCZ20-066-301FE / CHR_F_PROTAZO20_EFF8_CZ13 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Petr Smahel	2020	Evaluation of the efficacy of prothioconazol + azoxystrobin CHR/F/PROTAZO 375 SC in spring barley, Czech Republic 2020. SynTech Research Czech s.r.o. Horní Kounice 1 671 40 Horní Kounice, Czech Republic Report no.: SRCZ20-067-301FE/ CHR_F_PROTAZO20_EFF8_CZ14 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Petr Smahel	2020	Evaluation of the efficacy of prothioconazol + azoxystrobin CHR/F/PROTAZO 375 SC in spring barley, Czech Republic 2020. SynTech Research Czech s.r.o. Horní Kounice 1 671 40 Horní Kounice, Czech Republic Report no.: SRCZ20-064-301FE/ CHR_F_PROTAZO20_EFF8_CZ15 GEP - yes Unpublished	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
KCP 6 KCP 6.2	Petr Smahel	2020	Evaluation of the efficacy of prothioconazol + azoxystrobin CHR/F/PROTAZO 375 SC in spring barley, Czech Republic 2020. SynTech Research Czech s.r.o. Horní Kounice 1 671 40 Horní Kounice, Czech Republic Report no.: CZOR-CPP20-HORVS-075SYT / CHR_F_PROTAZO20_EFF8_CZ17 GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Sasa Strbac	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in spring barley, 2020. SynTech Research Germany Loofter Str. 9, 25593 Christenthal, Germany Report no.: SRDE20-151-301FE GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in spring barley. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO20_EFF8_DE27 GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in spring barley. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO20_EFF8_DE28 GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in spring barley. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO20_EFF8_DE29 GEP - yes Unpublished	N	ChemiroI

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in spring barley. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO20_EFF8_DE30 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment CHR/F/PROTAZO in fungal diseases control in spring barley cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/JJ/1/ZI/01 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment CHR/F/PROTAZO in fungal diseases control in spring barley cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/JJ/1/ZI/02 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment CHR/F/PROTAZO in fungal diseases control in spring barley cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/JJ/1/Br/03 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment CHR/F/PROTAZO in fungal diseases control in spring barley cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/JJ/1/Pr/04 GEP - yes Unpublished		
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment CHR/F/PROTAZO in fungal diseases control in spring barley cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/JJ/1/Br/05 GEP - yes Unpublished	N	Chemirrol
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment CHR/F/PROTAZO in fungal diseases control in spring barley cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/JJ/1/Pr/06 GEP - yes Unpublished	N	Chemirrol
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment CHR/F/PROTAZO in fungal diseases control in spring barley cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/JJ/1/Br/07 GEP - yes Unpublished	N	Chemirrol
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/86/JJ GEP - yes	N	Chemirrol

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Unpublished		
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/87/JJ GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/88/JJ GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/89/JJ GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/090/JJ	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			GEP - yes Unpublished		
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/091/JJ GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/092/JJ GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/093/JJ GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2021	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in spring barley to control cereal diseases. Poland, 2021. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2021/102/JJ GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeński	2021	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in spring barley cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Report no.: AF/21/JJ/19/ZI/1 GEP - yes Unpublished		
KCP 6 KCP 6.2	Artur Strzeliński	2021	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in spring barley cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/21/JJ/19/Br/2 GEP - yes Unpublished	N	Chemiról
KCP 6 KCP 6.2	Artur Strzeliński	2021	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in spring barley cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/21/JJ/19/Ra/3 GEP - yes Unpublished	N	Chemiról
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter wheat to control cereal diseases. Poland, 2019 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2019/028/PO GEP - yes Unpublished	N	Chemiról
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter wheat to control cereal diseases. Poland, 2019 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2019/029/PO GEP - yes Unpublished	N	Chemiról

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter wheat to control cereal diseases. Poland, 2019 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2019/030/PO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter wheat to control cereal diseases. Poland, 2019 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2019/031/PO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Stanislav Křížek	2019	Evaluation of the efficacy prothioconazol and azoxystrobin CHR/F/PROTAZO in winter wheat. 2019 Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice, Czech Republic Report no.: SRCZ19-022-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Stanislav Křížek	2019	Evaluation of the efficacy prothioconazol and azoxystrobin CHR/F/PROTAZO in winter wheat. 2019 Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice, Czech Republic Report no.: SRCZ19-024-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Stanislav Křížek	2019	Evaluation of the efficacy prothioconazol and azoxystrobin CHR/F/PROTAZO in winter wheat. 2019 Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice, Czech Republic Report no.: SRCZ19-023-301FE GEP - yes	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Unpublished		
KCP 6 KCP 6.2	Stanislav Křížek	2019	Evaluation of the efficacy prothioconazol and azoxystrobin CHR/F/PROTAZO in winter wheat. 2019 Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice, Czech Republic Report no.: SRCZ19-025-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Stanislav Křížek	2019	Evaluation of the efficacy prothioconazol and azoxystrobin CHR/F/PROTAZO in winter wheat. 2019 Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice, Czech Republic Report no.: SRCZ19-026-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Petr Smahel	2019	Evaluation of the efficacy prothioconazole + azoxystrobin CHR/F/PROTAZO 375 SC in winter wheat. Czech Republic 2019 SynTech Research Czech Republic s.r.o. Horní Kounice 1 671 40 Horní Kounice Czech Republic Report no.: SRCZ19-029-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Stanislav Křížek	2019	Evaluation of the efficacy prothioconazol and azoxystrobin CHR/F/PROTAZO in winter wheat. 2019, Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice, Czech Republic Report no.: SRCZ19-027-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Petr Smahel	2019	Evaluation of the efficacy prothioconazole + azoxystrobin CHR/F/PROTAZO 375 SC in winter wheat. Czech Republic 2019 SynTech Research Czech Republic s.r.o. Horní Kounice 1 671 40 Horní Kounice Czech Republic Report no.: SRCZ19-030-301FE	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			GEP - yes Unpublished		
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO applied in winter wheat. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-136-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO applied in winter wheat. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-137-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO applied in winter wheat. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-138-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO applied in winter wheat. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-139-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO applied in winter wheat. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-140-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO applied in winter wheat. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	N	Chemirol

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Poland Report no.: SRPL19-141-336FE GEP - yes Unpublished		
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO applied in winter wheat. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-144-336FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO applied in winter wheat. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-145-336FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO applied in winter wheat. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-146-336FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter wheat to control cereal diseases. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/009/PO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter wheat to control cereal diseases. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/010/PO GEP - yes Unpublished	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter wheat to control cereal diseases. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/011/PO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter wheat to control cereal diseases. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/012/PO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter wheat to control cereal diseases. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2020/013/PO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter wheat cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PO/1/Pr/01 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter wheat cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Report no.: AF/20/PO/1/ZI/02 GEP - yes Unpublished		
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter wheat cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PO/1/Pr/03 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter wheat cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PO/1/Br/04 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter wheat cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PO/1/Br/05 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Sasa STRBAC	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter wheat. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-101-301FE GEP - yes Unpublished	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
KCP 6 KCP 6.2	Sasa STRBAC	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter wheat. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-102-301FE GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Sasa STRBAC	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter wheat. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-103-301FE GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Sasa STRBAC	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter wheat. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-104-301FE GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Sasa STRBAC	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter wheat. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-105-301FE GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Sasa STRBAC	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter wheat.	N	ChemiroI

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			SynTech Research Germany GmbH Loofter Str. 9, 25593 Christenthal, Germany Report no.: SRDE20-106-301FE GEP - yes Unpublished		
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against ear diseases in winter wheat Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO_EFF5_DE14 GEP - yes Unpublished	N	Chemirrol
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against ear diseases in winter wheat Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO_EFF5_DE15 GEP - yes Unpublished	N	Chemirrol
KCP 6 KCP 6.2	Stanislav Křížek	2020	Evaluation of the efficacy prothioconazole and azoxystrobin CHR/F/PROTAZO in winter wheat. 2020, Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice Czech Republic Report no.: SRCZ20-052-301FE GEP - yes Unpublished	N	Chemirrol
KCP 6 KCP 6.2	Jitka Mareckova	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) in winter wheat. ZS Krásné Údolí Krásné Údolí 141 364 01 Toužim Czech Republic Report no.: CHR_F_PROTAZO_EFF20_CZ02 GEP - yes Unpublished	N	Chemirrol
KCP 6 KCP 6.2	Stanislav Křížek	2020	Evaluation of the efficacy prothioconazole and azoxystrobin CHR/F/PROTAZO in winter	N	Chemirrol

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			wheat. 2020, Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice Czech Republic Report no.: SRCZ20-054-301FE GEP - yes Unpublished		
KCP 6 KCP 6.2	Petr Šmahel	2020	Evaluation of the efficacy prothioconazole and azoxystrobin CHR/F/PROTAZO 375 SC in winter wheat, Czech Republic 2020. SynTech Research Czech Republic s.r.o. Horní Kounice 1 671 40 Horní Kounice Czech Republic Report no.: SRCZ20-055-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter tritcale to control cereal diseases. Poland, 2019. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2019/032/PZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter tritcale to control cereal diseases. Poland, 2019. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2019/033/PZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter tritcale to control cereal diseases. Poland, 2019. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2019/034/PZO GEP - yes	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Unpublished		
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO in winter triticale SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-142-336FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zdzisław Jaskólski	2019	Evaluation efficacy of CHR/F/PROTAZO in winter triticale SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: SRPL19-143-336FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Antonín Růžička	2019	Efficacy of CHR/F/PROTAZO in winter triticale, spring 2019 Zkušební stanice Rýmařov, s.r.o. 8.května 61 795 01 Rýmařov Czech Republic Report no.: CHR_F_PROTAZO_CZ07 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Jan Čáp	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in winter triticale 2019 Zkušební stanice Nechanice Štolbova 319 503 15 Nechanice Czech Republic Report no.: CHR_F_PROTAZO_CZ09 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Tomas Fiala	2019	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in winter triticale 2019 Zkušební stanice Kluky spol. s.r.o. Kluky 201, 398 19 Kluky Czech Republic Report no.: CHR_F_PROTAZO_CZ11 GEP - yes	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Unpublished		
KCP 6 KCP 6.2	Antonín Růžicka	2019	Efficacy of CHR/F/PROTAZO in winter triticale, spring 2019 Zkušební stanice Rýmařov, s.r.o. 8.května 61 795 01 Rýmařov Czech Republic Report no.: CHR_F_PROTAZO_CZ12 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter triticale to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/014/PŽO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter triticale to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/015/PŽO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter triticale to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/016/PŽO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter triticale to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/016/PŽO GEP - yes Unpublished	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Poland Report no.: A.T/2020/017/PŻO GEP - yes Unpublished		
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter triticale to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/018/PŻO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter triticale to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/019/PŻO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter triticale to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/020/PŻO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter triticale to control cereal diseases. Poland, 2020. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/021/PŻO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			diseases control in winter triticales cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PszO/1/Pr/01 GEP - yes Unpublished		
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter triticales cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PszO/1/Br/02 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter triticales cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PszO/1/Pr/03 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter triticales cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PszO/1/Br/04 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter triticales cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PszO/1/ZI/05 GEP - yes Unpublished		
KCP 6 KCP 6.2	Zuzanna Sawinska	2020	The evaluation of efficacy and phytotoxicity treatment of CHR/F/PROTAZO in fungal diseases control in winter triticales cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/PszO/1/Br/06 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Miso Jovic	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO in winter triticales. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-107-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Iris Könings	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter triticales. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-108-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Miso Jovic	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO in winter triticales. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-109-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against stem and leaf diseases in winter triticales. Hetterich Fieldwork GbR Bamberger Straße 50	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			97359 Schwarzach Germany Report no.: CHR-F-PROTAZO-EFF01-DE016 GEP - yes Unpublished		
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter triticale. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR-F-PROTAZO20-EFF3-DE017 GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter triticale. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR-F-PROTAZO20-EFF2-DE18 GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter triticale. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO20_EFF2_DE19 GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter triticale. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO20_EFF4_DE20 GEP - yes Unpublished	N	ChemiroI

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against foliar diseases in winter triticale. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO20_EFF4_DE21 GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) against ear diseases in winter triticale. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO20_EFF5_DE22 GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Stanislav Křížek	2020	Evaluation of the efficacy prothioconazole and azoxystrobin CHR/F/PROTAZO in winter triticale.2020, Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice Czech Republic Report no.: SRCZ20-056-301FE GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Stanislav Křížek	2020	Evaluation of the efficacy prothioconazole and azoxystrobin CHR/F/PROTAZO in winter triticale.2020, Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice Czech Republic Report no.: SRCZ20-057-301FE GEP - yes Unpublished	N	ChemiroI
KCP 6 KCP 6.2	Petr Smahel	2020	Evaluation of the efficacy prothioconazole + azoxystrobin CHR/F/PROTAZO 375 SC in	N	ChemiroI

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			winter triticales. Czech Republic, 2020 SynTech Research Czech Republic s.r.o. Horní Kounice 1 671 40 Horní Kounice Czech Republic Report no.: SRCZ20-058-301FE GEP - yes Unpublished		
KCP 6 KCP 6.2	Michał Springer	2020	Efficacy of prothioconazol and azoxystrobin in winter triticales 2020 SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL2020_404_336_FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Michał Springer	2020	Efficacy of prothioconazol and azoxystrobin CHR/F/PROTAZO in winter triticales 2020. SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL20-405-336FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Jacek Kozłowski	2020	Efficacy of prothioconazole and azoxystrobin in winter triticales 2020. SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL20-406-336FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter oilseed rape to control rape diseases. Poland, 2019 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2019/035/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter oilseed rape to control rape diseases. Poland, 2019 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2019/036/RZO	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			GEP - yes Unpublished		
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter oilseed rape to control rape diseases. Poland, 2019 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2019/037/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2019	Efficacy evaluation of fungicide CHR/F/PROTAZO 375 SC when applied in winter oilseed rape to control rape diseases. Poland, 2019 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2019/038/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Stanislav Křížek	2019	Evaluation of the efficacy prothioconazole and azoxystrobin CHR/F/PROTAZO in winter oilseed rape. 2019, Czech Republic SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice Czech Republic Report no.: SRCZ19-028-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Petr Daňa	2019	Efficacy of CHR/F/PROTAZO 375 SC (prothioconazole + azoxystrobin) against Verticillium in oilseed rape. Zemědělská zkušební stanice Kujavy, s.r.o., Kujavy 48, 742 44, Czech Republic Report no.: CHR-F-PROTAZO 375 SC GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of CHR/F/PROTAZO 375 SC when applied in winter oilseed rape to control rape diseases. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			88-300 Poland Report no.: A.T/2020/022/RZO GEP - yes Unpublished		
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of CHR/F/PROTAZO 375 SC when applied in winter oilseed rape to control rape diseases. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/023/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Joanna Guzińska	2020	Efficacy evaluation of CHR/F/PROTAZO 375 SC when applied in winter oilseed rape to control rape diseases. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Poland Report no.: A.T/2020/024/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Angelika Sobczak	2020	The evaluation of efficacy and phytotoxicity of product CHR/F/PROTAZO in winter rape cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/RO/1/Pr/01 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Angelika Sobczak	2020	The evaluation of efficacy and phytotoxicity of product CHR/F/PROTAZO in winter rape cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/RO/1/Pr/02 GEP - yes Unpublished	N	Chemirol
KCP 6	Angelika Sobczak	2020	The evaluation of efficacy and phytotoxicity of	N	Chemirol

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
KCP 6.2			product CHR/F/PROTAZO in winter rape cultivation. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/20/RO/1/ZŁ/03 GEP - yes Unpublished		
KCP 6 KCP 6.2	Sasa Strbac	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) in winter oilseed rape. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-110-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Sasa Strbac	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) in winter oilseed rape. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-111-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Sasa Strbac	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) in winter oilseed rape. Germany 2020 SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-112-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Iris Könings	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) in winter oilseed rape. SynTech Research Germany GmbH Loofter Str. 9, 25593 Christinenthal, Germany Report no.: SRDE20-113-301FE GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) in winter oilseed rape. Hetterich Fieldwork GbR	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Bamberger Straße 50 97359 Schwarzach Germany Report no.: CHR_F_PROTAZO20_EFF06_DE23 GEP - yes Unpublished		
KCP 6 KCP 6.2	Andreas Hetterich	2020	Efficacy of prothioconazole and azoxystrobin (CHR/F/PROTAZO) in winter oilseed rape. Hetterich Fieldwork GbR Bamberger Straße 50 97359 Schwarzach Germany Report no.: GEP - yes CHR_F_PROTAZO20_EFF07_DE24 Unpublished	N	Chemirool
KCP 6 KCP 6.2	Stanislav Křížek	2020	Evaluation of the efficacy prothioconazole and azoxystrobin CHR/F/PROTAZO in winter oil seed rape. 2020 Czech Republic. SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice Czech Republic Report no.: SRCZ20-059-301FE GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2	Stanislav Křížek	2020	Evaluation of the efficacy prothioconazole and azoxystrobin CHR/F/PROTAZO in winter oil seed rape. 2020 Czech Republic. SynTech Research Czech Republic s.r.o. Semčice 245 294 46 Semčice Czech Republic Report no.: SRCZ20-060-301FE GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2	Petr Šmahel	2020	Evaluation of the efficacy prothioconazole + azoxystrobin CHR/F/PROTAZO 375 SC in winter rape, Czech Republic 2020. SynTech Research Czech Republic s.r.o. Horní Kounice 1 671 40 Horní Kounice Czech Republic Report no.: SRCZ20-061-301FE GEP - yes Unpublished	N	Chemirool

Appendix 2 Additional information provided by the applicant

COMPARISON OF CLIMATIC AND AGRICULTURAL CONDITIONS IN POLAND AND THE CZECH REPUBLIC IN REFERENCE TO REGISTRATION OF PLANT PROTECTION PRODUCT CHR/F/PROTAZO

1. Introduction

The purpose of the following document is to compare climatic and agricultural conditions of Poland and the Czech Republic in order to enable data from efficacy and phytotoxicity trials conducted in Poland to be used for registration purposes of spring, foliar applied, cereal and rape fungicide CHR/F/PROTAZO in the Czech Republic.

2. Plant protection products under consideration

2.1. General

2.2. The efficacy and phytotoxicity studies were conducted in Poland in 2018 and 2019 in cereals and winter oilseed rape. The standards were Toledo Extra 430 SC, Makler 250 SE, Makler 250 SE, Elatus Era and Delaro 325 SC containing the active substances: Azoxystrobin, Prothioconazole, Tebuconazole, Trifloxystrobin, Benzowindylflupyr, . Total of 9 efficacy (1 trial in winter wheat, 1 trial in winter triticale, 2 trials in spring barley and 5 trials in winter oil seed rape) GEP trials were carried out to assess the product's efficacy and phytotoxic potential.

2.3. Products' characteristics:

Table 1. Products' characteristics

PRODUCT	CHR/F/PROTAZO 375 SC
active substance content	200 g / l azoxystrobin and 175 g / l prothioconazole
formulation	SC – Suspension Concentrate

Table 2. Properties of florasulam

active substance common name	Azoxystrobin	Prothioconazole
active substance chemical name	methyl (E)-2-{2[6-(2-cyanophenoxy) pyrimidin-4- yloxy]phenyl}-3-methoxyacrylate	2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl) -2-hydroxypropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione
function	azoxystrobin is a broad spectrum fungicide for the control of many plant diseases. It has the same biochemical mode of action as the naturally occurring strobilurins and is structurally related to them. Azoxystrobin ia a β -methoxyacrylate. It is included in the same chemical class as a trifloxystrobin, dimoxystrobin, fluxastrobin, picoxystrobin, pyraclostrobin and trifloxystrobin. The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. It inhibits spore germination and the development for control od diseases from Ascomycetes, Basidiomycetes, Deuteromycetes and Oomycetes.	Prothioconazole is a systemic (loco and leaf) fungicide that interferes with fungal sterol biosynthesis resulting in the impairment of membrane function and limitation of fungal growth. Prothioconazole is recommended for the control of steam, leaf and ear diseases of cereals including Pseudocercospora herpotrichoides, Erysiphe graminis, Puccinia striiformis, Puccinia recondita, Septoria tritici, Pyrenophora tritici repentis, Leptosphaeria nodorum, Rhizoctonia cerealis, Microdochium nivale, Fusarium spp., Rhynchosporium secalis, Pyrenophora teres, Puccinia hordei, Pseudocercospora herpotrichoides and oilseed rape diseases including Sclerotinia sclerotiorum, Leptosphaeria maculans, Pyrenopeziza brassicae, Cylandrosporium spp., Botrytis

		cinerea, <i>Alternaria brassicae</i> .
mode of action	Azoxystrobin acts by inhibiting electron transport consequently inhibiting fungal respiration	DMI fungicides act by inhibiting the Cytochrome P450-dependent C-14 demethylase reaction in fungal sterol biosynthesis. Blockage of the sterol biosynthesis leads to a reduction in the normal sterol pathway end products and an accumulation of other abnormal sterols. It is unclear which of these effects is re-sponsible for impairment of membrane function and limitation of fungal growth.
application	Winter wheat, winter triticale, spring barley, winter oilseed rape, spring application; BBCH 30-69	Winter wheat, winter triticale, spring barley, winter oilseed rape, spring application; BBCH 30-69

3. Climatic conditions

Poland and the Czech Republic are geographically very close to one another. The geographical coordinates of the Czech Republic are: latitude 49.45°N, longitude 15.30°E. The geographical coordinates of Poland are: latitude 52.00°N, longitude 20.00°E. The two countries share 615 km border .

The following map (originating from maps.google.com) illustrates the two countries.

Figure 1. Location of Poland and the Czech Republic



The following sections present and compare particular elements of Polish and Czech climate. The following parameters are compared: average monthly temperature, average maximum monthly temperature, average minimum monthly temperature, average monthly precipitation sum. To compare data in each country there were selected

several locations from which average readings were calculated. The following map presents the location of climate stations included in calculations.

Figure 2. Location of climate stations



Table 3. Parameters of climate stations

Number on map	Location	Latitude	Longitude	Elevation (meters AMSL)
POLAND				
1.	Warsaw	52,10°N	20,58°E	106
2.	Szczecin	52,35°N	14,54°E	1
3.	Poznan	52,25°N	16,50°E	86
4.	Wroclaw	51,06°N	16,53°E	120
5.	Krakow	50,05°N	19,48°E	237
6.	Suwalki	54,08°N	22,57°E	186
THE CZECH REPUBLIC				
7.	Prague	50,00°N	14,40°E	303
8.	Brno	49,15°N	16,70°E	238
9.	Ostrava	49,68°N	18,10°E	256
10.	Cheb	50,08°N	12,40°E	474

data source: <http://pl.allmetsat.com/klimat/>

Climate stations were selected in a way that ensures their equal distribution throughout the area of each country. Data from Poland was collected from six stations while data from the Czech Republic was collected from four

stations. The number of Czech stations is smaller than that of Polish stations as detailed climatic data was not readily available from a greater number of stations in the Czech Republic. What is more, the authors of this report believe that the number of stations taken into account is sufficient to perform the comparison of climatic conditions and that it is relative to the acreage of each country.

3.1. Average monthly temperature

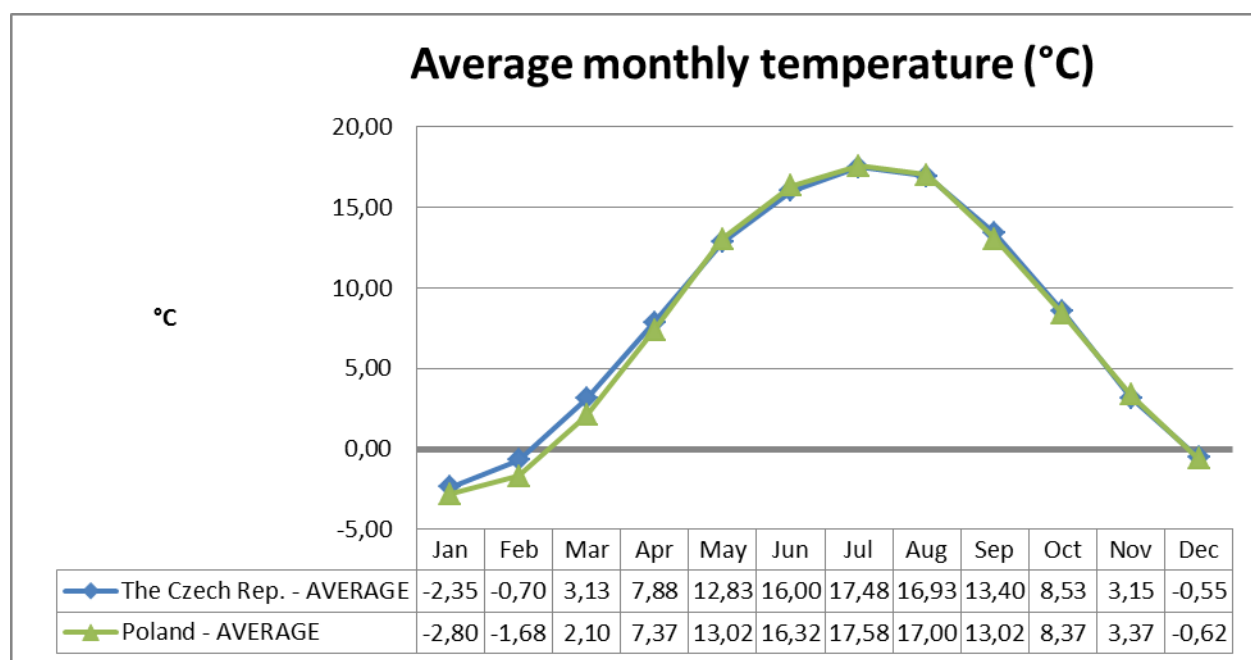
Table 4. Average monthly temperature data

Location	Average monthly temperature (°C)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	-2,5	-1,2	2,4	6,7	11,7	15,0	16,5	15,8	12,5	7,8	2,4	-1,0
The Czech Rep.: Prague	-2,0	-0,6	3,1	7,6	12,5	15,6	17,1	16,6	13,2	8,3	3,0	-0,2
The Czech Rep.: Brno	-2,5	-0,3	3,8	9,0	13,9	17,0	18,5	18,1	14,3	9,1	3,5	-0,6
The Czech Rep.: Ostrava	-2,4	-0,7	3,2	8,2	13,2	16,4	17,8	17,2	13,6	8,9	3,7	-0,4
The Czech Rep. - AVERAGE	-2,35	-0,70	3,13	7,88	12,83	16,00	17,48	16,93	13,40	8,53	3,15	-0,55
Poland: Warsaw	-3,3	-2,1	1,9	7,7	13,5	16,7	18,0	17,3	13,1	8,2	3,2	-0,9
Poland: Poznan	-2,0	-1,0	2,7	7,6	13,3	16,7	18,0	17,4	13,4	8,8	3,8	-0,1
Poland: Wroclaw	-1,8	-0,5	3,2	8,0	13,1	16,5	17,7	17,2	13,4	8,9	3,9	0,2
Poland: Krakow	-3,3	-1,6	2,4	7,9	13,1	16,2	17,5	16,9	13,1	8,3	3,2	-1,0
Poland: Szczecin	-1,1	-0,3	3,0	7,4	12,9	16,4	17,7	17,2	13,5	9,2	4,4	0,8
Poland: Suwalki	-5,3	-4,6	-0,6	5,6	12,2	15,4	16,6	16,0	11,6	6,8	1,7	-2,7
Poland - AVERAGE	-2,80	-1,68	2,10	7,37	13,02	16,32	17,58	17,00	13,02	8,37	3,37	-0,62

data source:

<http://www.climate-charts.com/>; NOAA Global Climate Normals 1961-1990; National Oceanic and Atmospheric Administration (NOAA).

Figure 3. Average monthly temperature graph



The table and graph above show that average temperature in Poland and in the Czech Republic is very similar. There are slight differences only in the winter months. The time which is of most importance to the application of product

CHR/F/PROTAZO is spring. It is so because product CHR/F/PROTAZO is to be applied in the spring in winter wheat, winter triticale, spring barley and winter oilseed rape BBCH 30-69. In the months of April through May there is a close correlation between average temperatures in Poland and in the Czech Republic.

3.2. Average maximum monthly temperature

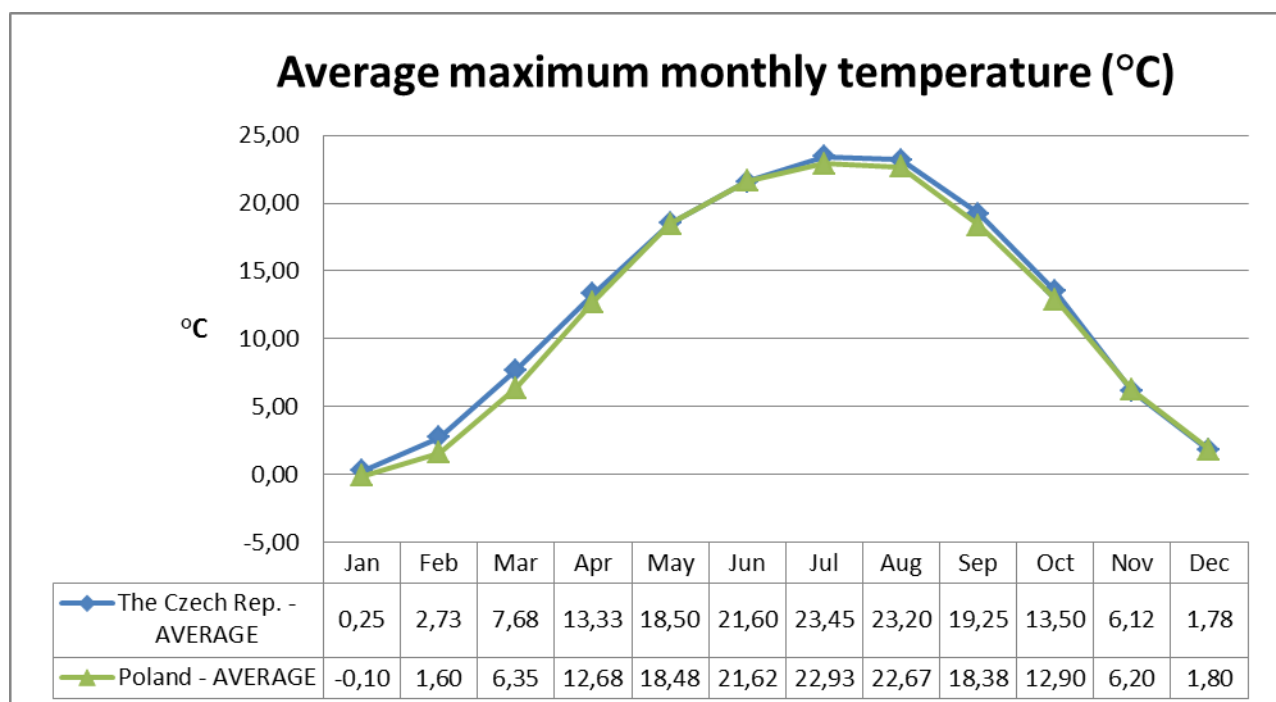
Table 5. Average maximum monthly temperature data

Location	Average maximum monthly temperature (°C)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	0,0	2,3	7,0	12,2	17,4	20,6	22,4	22,2	18,5	12,8	5,2	1,3
The Czech Rep.: Prague	0,4	2,7	7,7	13,2	18,3	21,4	23,3	23,0	19,0	13,1	6,0	1,9
The Czech Rep.: Brno	0,2	3,1	8,4	14,4	19,5	22,5	24,5	24,2	20,1	14,1	6,6	1,9
The Czech Rep.: Ostrava	0,4	2,8	7,6	13,5	18,8	21,9	23,6	23,4	19,4	14,0	6,7	2,0
The Czech Rep. - AVERAGE	0,25	2,73	7,68	13,33	18,50	21,60	23,45	23,20	19,25	13,50	6,13	1,78
Poland: Warsaw	-0,7	1,0	6,0	12,9	18,8	22,0	23,3	22,9	18,3	12,7	5,9	1,4
Poland: Poznan	0,5	2,2	6,8	13,0	18,8	22,1	23,5	23,1	18,7	13,1	6,4	2,2
Poland: Wroclaw	1,3	3,2	7,9	13,6	18,8	22,0	23,4	23,2	19,3	14,1	7,4	3,0
Poland: Krakow	-0,1	2,1	7,1	13,5	18,7	21,6	23,0	22,8	18,8	13,8	6,8	1,8
Poland: Szczecin	1,3	2,8	7,2	12,6	18,4	21,6	22,8	22,6	18,6	13,1	6,9	3,0
Poland: Suwalki	-2,9	-1,7	3,1	10,5	17,4	20,4	21,6	21,4	16,6	10,6	3,8	-0,6
Poland - AVERAGE	-0,10	1,60	6,35	12,68	18,48	21,62	22,93	22,67	18,38	12,90	6,20	1,80

data source:

<http://www.climate-charts.com/>; NOAA Global Climate Normals 1961-1990; National Oceanic and Atmospheric Administration (NOAA).

Figure 4. Average maximum monthly temperature graph



The table and graph above present the average maximum temperature in each month. It is clear that maximum temperature in Poland and in the Czech Republic is very similar. In the spring months that are crucial to the

application of product CHR/F/PROTAZO average maximum temperature in both countries differs by no more than 0,65°C.

3.3. Average minimum monthly temperatures

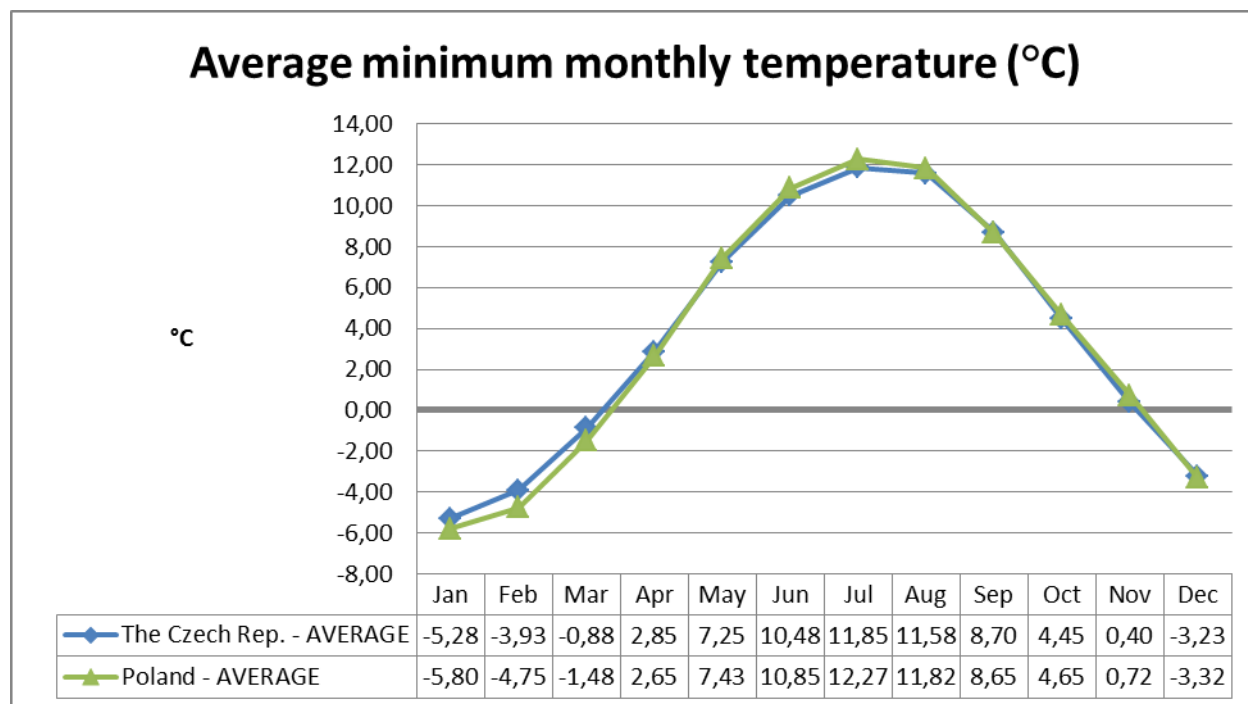
Table 6. Average minimum monthly temperature data

Location	Average minimum monthly temperature (°C)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	-5,0	-4,1	-1,2	2,1	6,3	9,6	11,0	10,6	8,0	4,1	0,0	-3,3
The Czech Rep.: Prague	-5,3	-4,2	-1,3	2,4	7,1	10,4	11,8	11,5	8,6	4,0	-0,2	-3,4
The Czech Rep.: Brno	-5,2	-3,3	-0,2	3,9	8,3	11,3	12,7	12,6	9,5	5,0	0,9	-3,0
The Czech Rep.: Ostrava	-5,6	-4,1	-0,8	3,0	7,3	10,6	11,9	11,6	8,7	4,7	0,9	-3,2
The Czech Rep. - AVERAGE	-5,28	-3,93	-0,88	2,85	7,25	10,48	11,85	11,58	8,70	4,45	0,40	-3,23
Poland: Warsaw	-6,1	-5,0	-1,5	3,0	8,0	11,3	12,6	12,1	8,7	4,5	0,8	-3,4
Poland: Poznan	-4,8	-3,9	-0,8	2,8	7,7	11,2	12,5	12,2	9,0	5,3	1,2	-2,6
Poland: Wroclaw	-5,3	-4,0	-0,9	2,8	7,1	10,7	12,0	11,6	8,7	4,6	0,6	-3,1
Poland: Krakow	-6,7	-4,8	-1,3	3,0	7,6	10,8	12,2	11,8	8,6	4,2	0,2	-4,0
Poland: Szczecin	-3,7	-3,1	-0,4	2,9	7,5	11,1	12,9	12,3	9,5	5,8	2,0	-1,6
Poland: Suwalki	-8,2	-7,7	-4,0	1,4	6,7	10,0	11,4	10,9	7,4	3,5	-0,5	-5,2
Poland - AVERAGE	-5,80	-4,75	-1,48	2,65	7,43	10,85	12,27	11,82	8,65	4,65	0,72	-3,32

data source:

<http://www.climate-charts.com/>; NOAA Global Climate Normals 1961-1990; National Oceanic and Atmospheric Administration (NOAA) .

Figure 5. Average minimum monthly temperature graph



Average minimum monthly temperature in Poland and in the Czech Republic follows almost the same pattern, therefore, it is comparable.

3.4. Average monthly precipitation sum

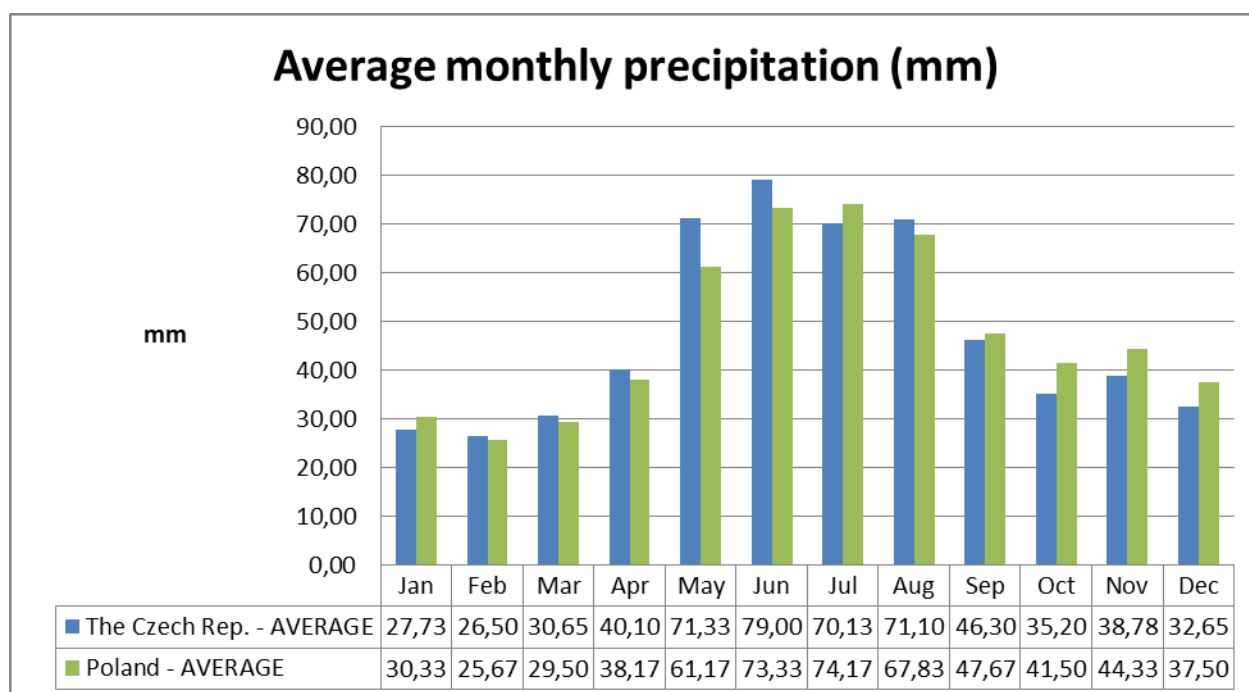
Table 7. Average monthly precipitation sum data

Location	Average monthly precipitation sum (mm)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	36,1	29,5	36,3	38,3	56,0	66,9	59,2	66,5	48,4	37,5	41,1	43,9
The Czech Rep.: Prague	23,6	22,6	28,1	38,2	77,2	72,7	66,2	69,6	40,4	30,5	31,9	25,3
The Czech Rep.: Brno	24,5	23,7	24,2	31,5	60,9	72,0	64,0	56,5	37,6	30,5	37,5	27,1
The Czech Rep.: Ostrava	26,7	30,2	34,0	52,4	91,2	104,4	91,1	91,8	58,8	42,3	44,6	34,3
The Czech Rep. - AVERAGE	27,7 3	26,5 0	30,6 5	40,1 0	71,3 3	79,0 0	70,1 3	71,1 0	46,3 0	35,2 0	38,7 8	32,6 5
Poland: Warsaw	22	21	26	33	58	71	69	62	43	37	41	32
Poland: Poznan	30	24	27	36	53	60	69	57	43	39	39	38
Poland: Wroclaw	28	26	26	39	64	80	84	78	48	40	43	34
Poland: Krakow	34	32	34	48	83	97	85	87	54	46	45	41
Poland: Szczecin	36	27	32	38	52	57	61	55	44	38	46	41
Poland: Suwalki	32	24	32	35	57	75	77	68	54	49	52	39
Poland - AVERAGE	30,3 3	25,6 7	29,5 0	38,1 7	61,1 7	73,3 3	74,1 7	67,8 3	47,6 7	41,5 0	44,3 3	37,5 0

data source:

<http://www.climate-charts.com/>; NOAA Global Climate Normals 1961-1990; National Oceanic and Atmospheric Administration (NOAA).

Figure 6. Average monthly precipitation sum graph



Average monthly precipitation sum in Poland and in the Czech Republic is similar. The graph above shows that there is slightly more precipitation in the Czech Republic in the first half of the year while the situation is reversed in the second half of the year. The greatest difference in average precipitation sum is noted in the month of May – 10,16 mm. Possible heavier rainfall in May would not influence the product's efficacy since it would have been absorbed by leaves shortly after application.

4. Soil conditions

Soil conditions in Poland and in the Czech Republic are not compared.

As has been mentioned above in Table 2. Azoxystrobin and Prothioconazole acts primarily through foliar uptake with little or no soil activity. This allows authors of this report to disregard soil conditions as they have very limited or no influence on the efficacy of the product.

5. Agricultural practice

5.1. Winter wheat sowing timing

According to the MOCA Study carried out by The MARS STAT Action in Poland sowing of winter wheat takes place in the second half of September (depending on the region term of sowing ranges from September 15th till October 5th). In the Czech Republic term of sowing of winter wheat is similar – the optimum sowing time is September 15th till October 15th.

Winter triticale follows practically the same pattern with respect to sowing and entering subsequent development phases. The crops are winter cereals, therefore, it is assumed, they are subject to the same agricultural practices at the same time in each country

5.2. Winter wheat growth and development

BBCH phases 30-69 that are most suitable for the application of CHR/F/PROTAZO encompass the development of winter wheat from end of tillering to end of flowering.

Figure 7. Phenological crop calendar for winter wheat in Poland



Figure 8. Phenological crop calendar for winter wheat in the Czech Republic



The data tables are incomplete with respect to tillering and shooting phases in the Czech Republic. It is so, because for financial reasons complete phenological data from the Czech Hydrometeorological Institute was not available to the authors of the MOCA Study. However, the distribution of the other available phenological phases allows for the assumption that the missing data is also comparable. In both countries climatic conditions are comparable so the development of winter wheat follows a similar pattern.

In general, it may be stated that winter wheat develops in a similar way in Poland and in the Czech Republic.

5.3. Winter oilseed rape sowing timing

According to the MOCA study in Poland sowing of winter oilseed rape takes place usually between 1st of August until 25th of August depending on the region. In Czech Republic winter oilseed rape is sowing in the similar time from 21st of July to 20th of August.

5.4. Winter oilseed rape growth and development

Figure 9. Phenological crop calendar for maize in Poland

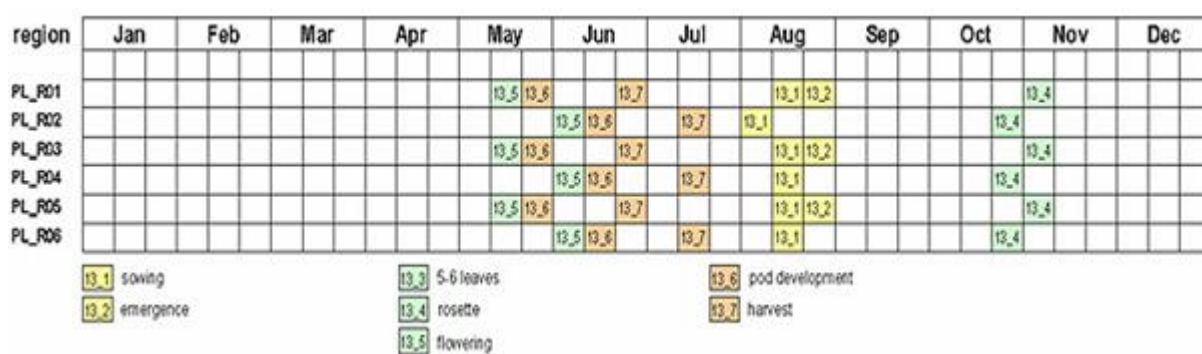


Figure 10. Phenological crop calendar for maize in the Czech Republic



In general, it may be stated that winter oilseed rape develops in a similar way in Poland and in the Czech Republic.

5.5. Spring barley sowing timing

According to the MOCA study in Poland sowing of spring barley takes place usually between March 15th and April 15th depending on the region. In Czech Republic spring barley should be planted as soon as possible when allowed by outside conditions.

5.6. Spring barley growth and development

Figure 11. Phenological crop calendar for spring barley in the Poland

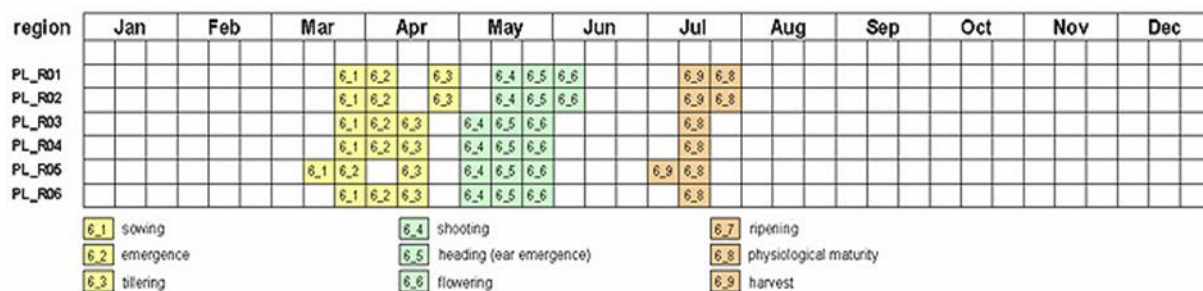


Figure 12. Phenological crop calendar for spring barley in the Czech Republic



5.7. Timing of application

CHR/F/PROTAZO, is applied up to maximum rate of 325 g a.s./ha, between growth stage BBCH 25-69 of the cereal and winter oilseed rape, once or twice per season, in 200-300 l water/ha.

5.8. Target pest

The most important pest risk according of the MOCA Study in the Poland and Czech Republic

No.	Crop	Poland	Czech Republic
1	Winter wheat	Erysiphe graminis	Pseudoercospora herpotrichoides
		Puccinia recondita sp. tritici	Puccinia spp
		Fusarium spp	Stagonospora nodorum
		Tapesia yallundae	Tilletia caries
		Gaeumannomyces graminis	Tilletia foetida
		ceratobasidium cereale	Tilletia contraversa
		Mycosphaerella graminicola	Septoria nodorum
		Septoria nodorum	Fusarium nivale
			Blumeria graminis
2	Spring barley	Erysiphe graminis	Blumeria graminis
		Pyrenophorateres graminea	Puccinia hordei
		Pyrenophora teres Drechsler	Tilletia sp
		Puccinia graminis	Ustilago nuda
		Rhynchosporium secalis	Helminthosporium gramineum
3	Winter oilseed rape	Phoma lingam	Phoma lingam
			Sclerotinia sclerotium

In summary, it may be stated that the most problematic pest species in cereals crops and winter oilseed rape in Poland and in the Czech Republic are comparable and they are almost all controlled by

CHR/F/PROTIO containing prothioconazole. Therefore product CHR/F/PROTIO 250 EC is expected to be equally highly efficient in both Poland and in the Czech Republic.

1. Conclusion

Poland and the Czech Republic are neighboring countries. Both lie in central Europe in the moderate climate zone. They share not only the border but also important climatic characteristics. Yearly temperature and precipitation patterns are very similar in both countries. This has influence on the agricultural practice in these countries and on the development of cultivated crops. Winter wheat, spring barley, winter triticale and winter oilseed rape which are of interest to the authors of this report, go through its development phases at relatively close calendar dates. What is more, the greatest pest problems are posed by almost the same in both countries. All of these and many more are targeted by azoxystrobin and prothioconazole which are the active substance of product CHR/F/PROTAZO.

In conclusion, authors of this report state that Poland and the Czech Republic share many elements of climatic and agricultural conditions. This allows efficacy and phytotoxicity study results acquired in Poland to be used in registration procedures in the Czech Republic.

Appendix 3 Summary of data on trials site and application details per use

Winter wheat

Test report/ research number (1)	Trial location (2); Crop cultivar; F/G (3); N/A (4)	Testing Unit (5)	Test method (6); Plot size; Sample size (7)	Treatment			
				Growth stage (8)	Interval	Total number	Spray volume (L/ha)
A.T/2019/028/PO	Brzeźno / Poland Winter wheat/ Arkadia F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2,5x10=25m ²	BBCH 39-41	n/a	1	200
A.T/2019/029/PO	Wilcze/Poland Winter wheat/Arkadia F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2,5x8=20 m ²	BBCH 45-47	n/a	1	200
A.T/2019/030/PO	Kakulin / Poland Winter wheat/ Arkadia F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2,5x8=20 m ²	BBCH 61-65	n/a	1	200
A.T/2019/031/PO	Sławęcin / Poland Winter wheat/ Honda F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2,5x10=25m ²	BBCH 61-65	n/a	1	200
A.T/2020/009/PO	Rybowo (Chwałodno)/ Poland Winter wheat/ Arkadia F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) EPPO PP 1/28(3) 3x9,5=28,5m ²	A: BBCH 25-30 B: BBCH 30-32	31	2	200
A.T/2020/010/PO	Wilcze/ Poland Winter wheat/ Medalistka F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) EPPO PP 1/28(3) 3x8=24 m ²	A: BBCH 25-30 B: BBCH 31-32	31	2	200
A.T/2020/011/PO	Modrze/ Poland Winter wheat/ Euforia F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) EPPO PP 1/28(3) 3x7=21m ²	A: BBCH 25-30 B: BBCH 30-32	23	2	200
A.T/2020/012/PO	Łysomice/ Poland Winter wheat/ RGT Reform F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) EPPO PP 1/28(3) 3x10=30m ²	A: BBCH 25-28 B: BBCH 31-32	22	2	300
A.T/2020/013/PO	Rybowo (Chwałodno)/ Poland Winter wheat/ Arkadia F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) EPPO PP 1/28(3) 3x9,5=28,5m ²	BBCH 30-32	n/a	1	300
AF/20/PO/1/Pr/01	Przybroda /Poland Winter wheat/ Arkadia F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 2x12=24m ²	BBCH 24-26	n/a	1	200

AF/20/PO/1/ZI/02	Złotniki / Poland Winter wheat/ Bogatka F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 2,5x8=20m ²	BBCH 27-29	n/a	1	200
AF/20/PO/1/Pr/03	Przybroda /Poland Winter wheat/ Arkadia F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 2x12=24m ²	BBCH 47-51	n/a	1	200
AF/20/PO/1/Br/04	Brody / Poland Winter wheat/ Tonacja F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 2x9=18m ²	BBCH 43-47	n/a	1	230
AF/20/PO/1/Br/05	Brody / Poland Winter wheat/ Tonacja F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 2x9=18m ²	BBCH 65-71	n/a	1	230
SRCZ19-022-301FE	Sekerkovy Loučky / Czech Republic Winter wheat / Avenue F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 3x7=21m ²	BBCH 28-31	n/a	1	225
SRCZ19-024-301FE	Lukavice / Czech Republic Winter wheat / Pannonia F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 3x7=21m ²	BBCH 30-31	n/a	1	225
SRCZ19-023-301FE	Lukavice / Czech Republic Winter wheat/ Pannonia F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 3x7=21m ²	BBCH 30-31	n/a	1	225
SRCZ19-025-301FE	Lustenice / Czech Republic Winter wheat/ Amandus F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 3x7=21m ²	BBCH 30-31	n/a	1	225
SRCZ19-026-301FE	Sekerkovy Loučky/ Czech Republic Winter wheat/ Avenue F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 3x7=21m ²	BBCH 45-47	n/a	1	225
SRCZ19-029-301FE	Horní Kounice / Czech republic Winter wheat/ Gordian F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 2,5x9=22,5m ²	BBCH 61-67	n/a	1	300

SRCZ19-027-301FE	Březina / Czech Republic Winter wheat/ Butterfly F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	EPPO PP 1/26(4) 3x7=21m ²	A: BBCH 37-41 B: BBCH 57-59	20	2	225
SRCZ19-030-301FE	Příložany / Czech Republic Winter wheat/ Patras F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	EPPO PP 1/26(4) 2,5x8=20m ²	BBCH 67-71	n/a	1	300
SRDE20-101-301FE	Untergruppenbach /Germany Winter wheat/ RGT Reform F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/26(4) 3x8=24m ²	BBCH 25-28	n/a	1	300
SRDE20-102-301FE	Neckarwestheim /Germany Winter wheat/ RGT Reform F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/26(4) 3x8=24m ²	BBCH 25-28	n/a	1	300
SRDE20-103-301FE	Möckmühl-Korb/Germany Winter wheat/ Barranco F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/26(4) 3x8=24m ²	BBCH 25-28	n/a	1	300
SRDE20-104-301FE	Möckmühl-Kressbach /Germany Winter wheat/ RGT Reform F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/26(4) 3x8=24m ²	BBCH 25-28	n/a	1	300
SRCZ20-052-301FE	Zaječov/Czech Republic Winter wheat/ Gallus F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	EPPO PP 1/26(4) 3x6=18m ²	BBCH 30-31	n/a	1	225
CHR_F_PROTAZO_EFF20_CZ02	Krasné Údolí/Czech Republic Winter wheat/ Energio F N	ZS Krásné Údolí, Krásné Údolí 141, 364 01 Toužim, Czech Republic	EPPO PP 1/26(4) 3x8,6=25,8 m ²	BBCH 31-32	n/a	1	300
SRDE20-105-301FE	Möckmühl/Germany Winter wheat/ Barranco F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/26(4) 2,5x10=25m ²	A: BBCH 31-34 B: BBCH 49-59	14	2	300
SRCZ20-054-301FE	Všejany/Czech Republic Winter wheat/ Hybery F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	EPPO PP 1/26(4) 3x6=18m ²	BBCH 65-69	n/a	1	225
SRCZ20-055-301FE	Tavíkovice/Czech Republic Winter wheat/ Tobak F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	EPPO PP 1/26(4) 2,5x9=22,5m ²	BBCH 55-65	n/a	1	300
SRDE20-106-301FE	Möckmühl-Korb/Germany Winter wheat/ Barranco	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/26(4) 3x8=24m ²	BBCH 61-69	n/a	1	300

	F N						
CHR_F_PROTAZO2 0_EFF5_DE14	Wittighausen/Ger many Winter wheat/ Elixer F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2,5x9=22,5m ²	BBCH 65	n/a	1	300
CHR_F_PROTAZO2 0_EFF5_DE15	Vreden/Germany Winter wheat/ Bergamo F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 1,5x10=15m ²	BBCH 61	n/a	1	300
SRPL19-136-336FE	Żnin / Poland Winter wheat/ Tonacja F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x7=21m ²	BBCH 30-31	n/a	1	300
SRPL19-137-336FE	Łęgajny / Poland Winter wheat/ Arkadia F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24m ²	BBCH 30-31	n/a	1	200
SRPL19-138-336FE	Mrówino / Poland Winter wheat/ Jantarka F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24m ²	BBCH 31-32	n/a	1	200
SRPL19-139-336FE	Krasienin / Poland Winter wheat/ Sailor F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x7=21m ²	BBCH 30-32	n/a	1	300
SRPL19-140-336FE	Turze / Poland Winter wheat/ Linus F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24m ²	BBCH 47-49	n/a	1	200
SRPL19-141-336FE	Niemce / Poland Winter wheat/ Jantarka F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24m ²	BBCH 61-69	n/a	1	300
SRPL19-144-336FE	Gietrzwałd / Poland Winter wheat/ Delawar F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x7=21m ²	A: BBCH 37 B: BBCH 55-57	26	2	200
SRPL19-145-336FE	Pokrzywno / Poland Winter wheat/ Arkadia F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x7=21m ²	A: BBCH 35-36 B: BBCH 56-59	26	2	200
SRPL19-146-336FE	Jankowice Wilekie / Poland Winter wheat/ Patras F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x6=18m ²	A: BBCH 35-36 B: BBCH 57-59	21	2	300

Notes:

- (1): test report number including the year of establishing the trial
- (2): precise place of the trial followed by the country
- (3): F= field trial, G=protected crop, specify
- (4): N=Natural infestation, A= Artificial inoculation
- (5): Trial responsible entity/ officially recognized organization
- (6): Test guideline used

(7): Sample size per plot
(8): Crop growth stage at application timing

Winter triticale

Test report/ research number (1)	Trial location (2); Crop cultivar; F/G (3); N/A (4)	Testing Unit (5)	Test method (6); Plot size; Sample size (7)	Treatment			
				Growth stage (8)	Interval	Total number	Spray volume (L/ha)
SRPL19-142-336FE	Wola Kalkowa/Poland Winter triticale /Borowik F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24m ²	BBCH 34-36	n/a	1	300
SRPL19-143-336FE	Žnin / Poland Winter triticale / Grenad F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x7=21m ²	BBCH 31-32	n/a	1	300
A.T/2019/032/PZO	Chojnice / Poland Winter triticale / Meloman F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x10 = 25m ²	BBCH 39-41	n/a	1	200
A.T/2019/033/PZO	Nowe Gronowo / Poland Winter triticale / Aveo F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x8=20m ²	A: BBCH 33-37 B: BBCH 54-56	21	2	200
A.T/2019/034/PZO	Chojnice / Poland Winter triticale / Meloman F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x10 = 25m ²	BBCH: 61-65	n/a	1	200
CZOR-SYT19-TTLSS-030RYM	Rymarov / Czech Republic Winter triticale / Modus F N	Zkušební stanice Rýmařov, s.r.o., 8.května 61, 795 01 Rýmařov, The Czech Republic	EPPO PP 1/26(4) 1.375x14.54=19.9925 m ²	BBCH 39-41	n/a	1	300
CZOR-SYT19-TTLSS-051NEC	Nechanice / Czech Republic winter triticale / Cedrico F N	ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic	EPPO PP 1/26(4) 2.7x9=24.3m ²	A: BBCH 39 B: BBCH 59-61	20	2	200
CHR_F_PROTAZO_CZ11	Stachy-Chalupy/ Czech Republic winter triticale /Cappricia F N	Zkušební stanice Kluky spol. s r.o. 398 19 Kluky/Pisek, Czech Republic	EPPO PP 1/26(4) 2x10=20m ²	A: BBCH 31-32 B: BBCH 55-59	20	2	300
CZOR-SYT19-TTLSS-031RYM	Rymarov / Czech Republic winter triticale /Triamant F N	Zkušební stanice Rýmařov, s.r.o., 8.května 61, 795 01 Rýmařov, The Czech Republic	EPPO PP 1/26(4) 1.375x14.54=19.9925 m ²	BBCH 61	n/a	1	300

A.T/2020/014/PŻO	Stęszew / Poland Winter triticales / Orinoko F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) EPPO PP 1/28(3) 2.5x7=17.5m ²	BBCH 28-32	n/a	1	200
A.T/2020/015/PŻO	Kamień Krajeński / Poland Winter triticales / Fredro F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) EPPO PP 1/28(3) 2.5x7.5=18.75m ²	A: BBCH 25-30 B: BBCH 31-32	21	2	200
A.T/2020/016/PŻO	Lysomice / Poland Winter triticales / Rotondo F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x10 = 25m ²	A: BBCH 31-32 B: BBCH 49-51	28	2	200
A.T/2020/017/PŻO	Sierpc / Poland Winter triticales / Panteon F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x8.5=21.25m ²	A: BBCH 31-32 B: BBCH 45-49	28	2	200
A.T/2020/018/PŻO	Sępólno Krajeńskie / Poland Winter triticales / Porto F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x8=20m ²	BBCH 31-32	n/a	1	300
A.T/2020/019/PŻO	Drobin/Poland Winter triticales/ Rotondo F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x8=20m ²	BBCH 37-41	n/a	1	200
A.T/2020/020/PŻO	Stęszew / Poland Winter triticales / Orinoko F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x7=17.5m ²	BBCH 37-39	n/a	1	300
A.T/2020/021/PŻO	Sierpc / Poland Winter triticales / Panteon F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x9=22.5m ²	BBCH 55-59	n/a	1	300
AF/20/PszO/1/Pr/01	Przybroda /Poland Winter triticales / Grenado F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 2x12=24m ²	A: BBCH 27-29 B: BBCH 29-31 C: BBCH 31-33	A:B 20 A:C 28	3	200
AF/20/PszO/1/Br/02	Brody / Poland winter triticales / Twingo F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 9x2=18m ²	BBCH 31-33	n/a	1	230

AF/20/PszO/1/Pr/03	Przybroda / Poland Winter triticale / Grenado F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 24m ²	BBCH 47-49	n/a	1	200
AF/20/PszO/1/Br/04	Brody / Poland Winter triticale / Twingo F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 2x9=18 m ²	BBCH 47-49	n/a	1	230
AF/20/PszO/1/Zl/05	Złotniki / Poland Winter triticale / Aliko F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 2.5x8=20m ²	BBCH 59-61	n/a	1	200
AF/20/PszO/1/Br/06	Brody / Poland Winter triticale / Twingo F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/26(4) 9x2=18m ²	BBCH 61-65	n/a	1	230
SRCZ20-056-301FE	Sekerkovy Loučky / Czech Republic Winter triticale /Talentro F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	EPPO PP 1/26(4) 3x7=21 m ²	BBCH 45	n/a	1	225
SRCZ20-057-301FE	Sekerkovy Loučky/ Czech Republic Winter triticale /Agostino F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	EPPO PP 1/26(4) 3x7=21 m ²	BBCH 47-51	n/a	1	225
SRCZ20-058-301FE	Dolní Dubnany / Czech Republic Winter triticale /Agostino F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	EPPO PP 1/26(4) 2.5x7=17.5 m ²	BBCH 49-55	n/a	1	300
SRDE20-107-301FE	Moosham/Germany Winter triticale / SU Agendus F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/26(4) 2.5x6=15m ²	BBCH 31-33	n/a	1	300
SRDE20-108-301FE	Göttingen/Germany Winter triticale / Tender F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/26(4) 2.5x8=20.0m ²	BBCH 45-51	n/a	1	200

SRDE20-109-301FE	Garching bei München /Germany Winter triticales / SU Agendus F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/26(4) 2.5x6=15m ²	BBCH 65-69	n/a	1	300
CHR-F-PROTAZO-EFF01-DE016	Bütthard-Tiefenthal /Germany Winter triticales / Lombardo F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x9=22.5m ²	BBCH 29	n/a	1	300
CHR_F_PROTAZO20_EFF3_DE17	Martinsheim/Germany Winter triticales / SW Talentro F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x8=20 m ²	BBCH 39-47	n/a	1	300
CHR_F_PROTAZO20_EFF2_DE18	Vreden/Germany Winter triticales / Barolo F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 1.5x9,5=14.25m ²	A: BBCH 33-37 B: BBCH 57-61	20	2	300
CHR_F_PROTAZO20_EFF2_DE19	Theilheim/Germany Winter triticales / Lombardo F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x6=15 m ²	A: BBCH 39 B: BBCH 49-53	13	2	300
CHR_F_PROTAZO20_EFF4_DE20	Martinsheim/Germany Winter triticales / SW Talentro F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x8=20 m ²	BBCH 47-49	n/a	1	300
CHR_F_PROTAZO20_EFF4_DE21	Theilheim/Germany Winter triticales / Lombardo F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x6=15 m ²	BBCH 49	n/a	1	300
CHR_F_PROTAZO20_EFF5_DE22	Bütthard-Tiefenthal/Germany Winter triticales / Robinson F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x9=22.5 m ²	BBCH 65	n/a	1	300
SRPL2020_404_336_FE	Czeska wieś / Poland	SynTech Research Poland Sp. z o.o., ul.	EPPO PP 1/26(4)	A: BBCH 37-41	21	2	300

	Winter triticales / Sekret F N	Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	3x7=21m ²	B: BBCH 57- 59			
SRPL2020_405_336F E	Olszany/Poland Winter triticales / Tadeus F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24 m ²	BBCH 63-67	n/a	1	300
SRPL2020_406_336F E	Jankowice Wielkie/ Poland Winter triticales / Rotondo F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24 m ²	BBCH 61-69	n/a	1	300

Notes:

- (1): test report number including the year of establishing the trial
- (2): precise place of the trial followed by the country
- (3): F= field trial, G=protected crop, specify
- (4): N=Natural infestation, A= Artificial inoculation
- (5): Trial responsible entity/ officially recognized organization
- (6): Test guideline used
- (7): Sample size per plot
- (8): Crop growth stage at application timing

Spring barley

Test report/ research number (1)	Trial location (2); Crop cultivar; F/G (3); N/A (4)	Testing Unit (5)	Test method (6); Plot size; Sample size (7)	Treatment			
				Growth stage (8)	Interval	Total number	Spray volume (L/ha)
A.T/2020/86/JJ	Modrze/ Poland Spring barley/ RGT Planet F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x7=17.5m ²	A: BBCH 28-30 B: BBCH 39-45	26	2	200
A.T/2020/87/JJ	Czachowo/ Poland Spring barley/ KWS IRINA F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x8=20m ²	A: BBCH 30-32 B:BBCH 49-53	21	2	200
A.T/2020/88/JJ	Białe Błoto/ Poland Spring barley/ Propino F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x8=20m ²	A: BBCH 28-31 B:BBCH 49-55	20	2	200
A.T/2020/89/JJ	Nowy Dwór/ Poland Spring barley/ Quench F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x7.5=18.75m ²	A: BBCH 30-31 B:BBCH 49-51	19	2	300
A.T/2020/090/JJ	Stęszew/Poland Spring barley/RGT Planet F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x7=17.5m ²	A: BBCH 31-33 B:BBCH 51-57	21	2	200
A.T/2020/091/JJ	Wilkowo/Poland Spring barley/Laureate F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x8=20m ²	A: BBCH 30-31 B:BBCH 49-51	19	2	200
A.T/2020/092/JJ	Maniewo/ Poland Spring barley/ Ellinor F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x7=17.5m ²	BBCH 49-51	n/a	1	300
A.T/2020/093/JJ	Nowy Dwór/ Poland Spring barley/ Quench F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x7.5=18.75m ²	BBCH 49-51	n/a	1	200

A.T/2021/102/JJ	Stęszew/ Poland Spring barely/KWS Vermont F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/26(4) 2.5x7.0=17.5m ²	BBCH 49-51	n/a	1	200
AF/20/JJ/1/Zi/01	Złotniki / Poland Spring barely/ Stratus F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 2.5x8=20m ²	A: BBCH 32-34 B: BBCH 52-54	21	2	200
AF/20/JJ/1/Zi/02	Złotniki/ Poland Spring barely/ Stratus F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 2.5x8=20m ²	A: BBCH 32-34 B: BBCH 52-54	21	2	200
AF/20/JJ/1/Br/03	Brody/ Poland Spring barely/ Iron F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 2x9=18m ²	A: BBCH 35-37 B: BBCH 53-57	21	2	200
AF/20/JJ/1/Pr/04	Przybroda/ Poland Spring barely/ Penguin F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 2x12=24m ²	A: BBCH 31-33 B: BBCH 58-61	21	2	200
AF/20/JJ/1/Br/05	Brody/ Poland Spring barely/ Iron F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 2x9=18m ²	A: BBCH 35-37 B: BBCH 53-57	21	2	230

AF/20/JJ/1/Pr/06	Przybroda/ Poland Spring barely/ Penguin F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 2x12=24m ²	BBCH 49-52	n/a	1	200
AF/20/JJ/1/Br/07	Brody/ Poland Spring barely/ Iron F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 2x9=18m ²	BBCH 49-55	n/a	1	230
AF/21/JJ/19/ZI/1	Złotniki / Poland Spring barely/ Kucyk F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 1.5x12.0=18.0 m ²	BBCH 49-51	n/a	1	250
AF/21/JJ/19/Br/2	Brody/ Poland Spring barely/ Iron F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 1.5x12.0=18.0 m ²	BBCH 49-52	n/a	1	230
AF/21/JJ/19/Ra/3	Rataje/ Poland Spring barely/ Orphelia F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	EPPO PP 1/26(4) 1.5x12.0=18.0 m ²	BBCH 47-51	n/a	1	250
CZOR-SYT19- HORVS-069NEC	Nechanice/ Czech Republic Spring barley/ Malz F N	ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic	EPPO PP 1/26(4) 2.7x9=24.3m ²	A: BBCH 37-39 B: BBCH 59-63	21	2	200

CZOR-SYT19- HORVS-041RY	Rymarov/ Czech Republic Spring barley/ Francin F N	Zkusebni stanice Nechanice, s.r.o. Stolbova 319 503 15 Nechanice Czech Republic	EPPO PP 1/26(4) 1.375x14.54=19.9 92 m ²	A: BBCH 37 B: BBCH 45-47	21	2	200
CZOR-SYT19- HORVS-070NEC	Nechanice/ Czech Republic Spring barley/ Sebastian F N	ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic	EPPO PP 1/26(4) 2.7x9=24.3m ²	A: BBCH 37-39 B: BBCH 59-63	21	2	200
CZOR-SYT19- HORVS- 042RYM	Rymarov/ Czech Republic Spring barley/ Francin F N	Zkusebni stanice Nechanice, s.r.o. Stolbova 319 503 15 Nechanice Czech Republic	EPPO PP 1/26(4) 1.375x14.54=19.9 92m ²	A: BBCH 37 B: BBCH 45-47	21	2	200
CZOR-SYT19- HORVS- 043RYM	Rymarov/ Czech Republic Spring barley/ Francin F N	Zkusebni stanice Nechanice, s.r.o. Stolbova 319 503 15 Nechanice Czech Republic	EPPO PP 1/26(4) 1.375x14.54=19.9 92m ²	A: BBCH 37 B: BBCH 45-47	21	2	200
SRCZ20-066- 301FE	Dobronice/ Czech Republic Spring barley/ Laudis F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 3x5=15m ²	A: BBCH 37-49 B: BBCH 56-61	13	2	300
SRCZ20-067- 301FE	Dobřínko/ Czech Republic Spring barley/ KWS Amadora F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 2.5x6=15m ²	A: BBCH 39-49 B: BBCH 65-69	18	2	300
SRCZ20-064- 301FE	Křepice/ Czech Republic Spring barley/ Solist F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 2.5x6=15m ²	A: BBCH 34-39 B: BBCH 55-59	14	2	300
CZOR-CPP20- HORVS-075SYT	Dobřínko/ Czech Republic Spring barley/ KWS Amadora F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/26(4) 2.5x6=15m ²	A: BBCH 37-45 B: BBCH 49-55	13	2	300
SRDE20-151- 301FE	Neudenu- Kressbach/	SynTech Research	EPPO PP 1/26(4)	A: BBCH 29-37 B: BBCH 49-55	34	2	300

	Germany Spring barley/ Avalon F N	Germany Loofter Str. 9, 25593 Christenthal, Germany	3x8=24m ²				
CHR_F_PROTA ZO20_EFF8_DE2 7	Lüdersdorf/ Germany Spring barley/ Planet F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftli che Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x9=22.5m ²	A: BBCH 36-37 B: BBCH 58-61	17	2	300
CHR_F_PROTA ZO20_EFF8_DE2 8	Niederbösa/ Germany Spring barley/ Leandra F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftli che Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x7=17.5 m ²	A: BBCH 31-34 B: BBCH 49-51	13	2	300
CHR_F_PROTA ZO20_EFF8_DE2 9	Wittighausen- Poppenhausen/ Germany Spring barley/ Avalon F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftli che Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x9=22.5m ²	BBCH 53	n/a	1	300
CHR_F_PROTA ZO20_EFF8_DE3 0	Schonungen/ Germany Spring barley/ Avalon F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftli che Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/26(4) 2.5x8.25=20.625 m ²	BBCH 30-31	n/a	1	300
SRPL19-301- 336FE	Murczyn/ Poland Spring barley/ Extase F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x7=21m ²	A: BBCH 31-32 B: BBCH 43-45	21	2	300
SRPL19-302- 336FE	Szamotuły/ Poland Spring barley/ KWS Atrika F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24m ²	A: BBCH 31-32 B: BBCH 43-51	26	2	200

SRPL19-303-336FE	Jabłowo Pałuckie/ Poland Spring barley/ Kucyk F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x7=21m ²	A: BBCH 31-35 B: BBCH 41-45	21	2	200
SRPL19-304-336FE	Teresin/ Poland Spring barley/ Soldo F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x7=21m ²	A: BBCH 33-37 B: BBCH 47-51	14	2	300
SRPL19-305-336FE	Pokrzywno/ Poland Spring barley/ Scorpion F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24m ²	A: BBCH 32-33 B: BBCH 57-59	21	2	200
SRPL19-306-336FE	Jankowice Wielkie/ Poland Spring barley/ Kucyk F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x6=18m ²	A: BBCH 32-37 B: BBCH 55-59	21	2	300
SRPL19-307-336FE	Sarbka/Poland Spring barley/ Antek F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x8=24m ²	A: BBCH 31-32 B: BBCH 37-39	28	2	200
SRPL19-308-336FE	Jankowice Wielkie/ Poland Spring barley/ Kucyk F N	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	EPPO PP 1/26(4) 3x6=18m ²	A: BBCH 32-37 B: BBCH 55-59	21	2	300

Notes:

- (1): test report number including the year of establishing the trial
- (2): precise place of the trial followed by the country
- (3): F= field trial, G=protected crop, specify
- (4): N=Natural infestation, A= Artificial inoculation
- (5): Trial responsible entity/ officially recognized organization
- (6): Test guideline used
- (7): Sample size per plot
- (8): Crop growth stage at application timing

Winter oilseed rape

Test report/ research number (1)	Trial location (2); Crop cultivar; F/G (3); N/A (4)	Testing Unit (5)	Test method (6); Plot size; Sample size (7)	Treatment			
				Growth stage (8)	Interval	Total number	Spray volume (L/ha)
A.T/2019/035/RZO	Dębinię / Poland winter oilseed rape / Kuga F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 2.5x10=25m ²	BBCH 65-67	n/a	1	200
A.T/2019/036/RZO	Lipka / Poland winter oilseed rape / Hamilton F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 2.5x10=25m ²	BBCH 65-67	n/a	1	200
A.T/2019/037/RZO	Lipka/Poland Winter oilseed rape/Hamilton F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 2.5x10=25m ²	BBCH 60-61	n/a	1	200
A.T/2019/038/RZO	Czarłomie/Poland Winter oilseed rape/ Hamilton F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 3x7.5=22m ²	BBCH 64-65	n/a	1	200
A.T/2020/022/RZO	Gaj Wielki/Poland Winter oilseed rape/ Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 2.5x8=20m ²	BBCH 57-62	n/a	1	300
A.T/2020/023/RZO	Lysomice/Poland Winter oilseed rape/Bonanza F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 2.5x10=25m ²	BBCH 63-65	n/a	1	200
A.T/2020/024/RZO	Gaj Wielki/Poland Winter oilseed rape/Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 2.5x8=20m ²	BBCH 65-67	n/a	1	300
A.T/2020/022/RZO	Gaj Wielki / Poland winter oilseed rape / Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 2.5x8=20m ²	BBCH 57-62	n/a	1	300
A.T/2020/023/RZO	Lysomice/ Poland winter oilseed rape / Bonanza F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 2.5x10=25m ²	BBCH 63-65	n/a	1	200
A.T/2020/024/RZO	Gaj Wielki / Poland winter oilseed rape / Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(3) 2.5x8=20m ²	BBCH 65-67	n/a	1	300
AF/20/RO/1/Pr/01	Przybroda / Poland Winter oilseed	Poznań University of Life Sciences, Research and	EPPO PP 1/78(3)	BBCH 59-65	n/a	1	200

	rape / Harry F N	Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	1.5x12=18m ²				
AF/20/RO/1/Pr/02	Przybroda / Poland Winter oilseed rape / Harry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(3) 1.5x12=18m ²	BBCH 65-69	n/a	1	200
AF/20/RO/1/ZL/03	Złotniki / Poland winter oilseed rape/ Graf F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(3) 2.5x10=25m ²	BBCH 65-69	n/a	1	200
SRCZ19-028-301FE	Lustenice /Czech Republic winter oilseed rape /Alicante F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/78(3) 3x7=21m ²	BBCH 65-67	n/a	1	225
SRCZ20-059-301FE	Hořkovic /Czech Republic winter oilseed rape / LG Architect F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/78(3) 3x7=21m ²	BBCH 61-65	n/a	1	200
SRCZ20-060-301FE	Luštěnice /Czech Republic winter oilseed rape / DK Expansion F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/78(3) 3x7=21m ²	BBCH 61-65	n/a	1	220
SRCZ20-061-301FE	Mikulovice /Czech Republic winter oilseed rape / Arabela F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/78(3) 2.5x9=22.5m ²	BBCH 65-67	n/a	1	250
SRDE20-110-301FE	Langenbrettach /Germany winter oilseed rape / Archipel F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/78(3) 3x8=24m ²	BBCH 61-65	n/a	1	300
SRDE20-111-301FE	Roigheim /Germany winter oilseed rape / Archipel F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/78(3) 3x8=24m ²	BBCH 61-65	n/a	1	300
SRDE20-112-301FE	Langenbrettach /Germany	SynTech Research Germany, Loofter	EPPO PP 1/78(3)	BBCH 65-69	n/a	1	300

	winter oilseed rape / ES Vito F N	Str. 9,25593 Christinenthal, Germany	3x8=24m ²				
SRDE20-113-301FE	Roigheim /Germany winter oilseed rape / Archipel F N	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	EPPO PP 1/78(3) 3x8=24m ²	BBCH 65-69	n/a	1	300
CHR_F_PROTAZO2 0_EFF06_DE23	Grieben /Germany winter oilseed rape / Alvaro F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftlich e Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/78(3) 2.5x10=25 m ²	BBCH 61-65	n/a	1	300
CHR_F_PROTAZO2 0_EFF07_DE24	Siemitz /Germany winter oilseed rape / Horace F N	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftlich e Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	EPPO PP 1/78(3) 3x10=30 m ²	BBCH 63-67	n/a	1	300
CZOR-SYT19- BRSNN-088KUJ	Kujavy /Czech Republic winter oilseed rape /DK Exstorm F N	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	EPPO PP 1/78(3) 3.5x9.15=32.02 5m ²	BBCH 65	n/a	1	200

Notes:

- (1): test report number including the year of establishing the trial
- (2): precise place of the trial followed by the country
- (3): F= field trial, G=protected crop, specify
- (4): N=Natural infestation, A= Artificial inoculation
- (5): Trial responsible entity/ officially recognized organization
- (6): Test guideline used
- (7): Sample size per plot
- (8): Crop growth stage at application timing

Appendix 4 Summary of data on effectiveness trials per use

Winter wheat

Test report (1)	Crop/ cultivar Harmful organism/ weed species or intended use	Assessed part and variable (2) no / m²	Untreated BBCH (during application)	Efficacy treatments (3)				Remarks (4)
				Product		Standard (s)		
				name	Dose [l/ha]	name	dose [l /ha]	
A.T/2019/028/PO	Winter wheat/ Arkadia PYRNTR ERYSGR SEPTTR	Leaf Plant	PYRNTR PRINFC 100 ERYSGR MIXED 100 SEPTTR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Makler 250 SE	1,0 1,0	Application date: 17.05.2019 Assessment date: 17.05.2019 24.05.2019 31.05.2019 14.06.2019 20.06.2019
A.T/2019/029/PO	Winter wheat/ Arkadia SEPTTR PUCCRE PYRNTR	Leaf Plant	SEPTTR - MIXED 100 PUCCRE- PRINFC 100 PYRNTR - MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Makler 250 SE	1,0 1,0	Application date: 22.05.2019 Assessment date: 22.05.2019 29.05.2019 05.06.2019 19.06.2019 27.06.2019 25.07.2019 06.08.2019
A.T/2019/030/PO	Winter wheat/ Arkadia FUSASP LEPTNO MYCOTA	Ear, Plant	FUSASP PRINFC 100 LEPTNO PRINFC 100 MYCOTA PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Makler 250 SE	1,0 1,0	Application date: 04.06.2019 Assessment date: 04.06.2019 11.06.2019 25.06.2019 17.07.2019
A.T/2019/031/PO	Winter wheat/ Hondia FUSASP LEPTNO	Ear, Plant	FUSASP PRINFC 100 LEPTNO PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Makler 250 SE	1,0 1,0	Application date: 07.06.2019 Assessment date: 07.06.2019 14.06.2019 21.06.2019 01.07.2019 20.07.2019
A.T/2020/009/PO	Winter wheat/ Arkadia PSDCHE FUSASP ERYSGR SEPTTR	Leaf Plant	PSDCHE MIXED 100 FUSASP PRINFC 100 ERYSGR MIXED 100 SEPTTR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Makler 250 SE	1,0 1,0	Application date: A: 17.03.2020 B: 07.04.2020 Assessment date: 17.03.2020 24.03.2020 07.04.2020 14.04.2020 21.04.2020 28.04.2020 02.07.2020 07.07.2020 02.08.2020
A.T/2020/010/PO	Winter wheat/ Medalistka PSDCHE FUSASP RHIZCE ERYSGR SEPTTR	Tiller Leaf Plant	PSDCHE PRINFC 100 FUSASP PRINFC 100 RHIZCE MIXED 100 ERYSGR MIXED 100 SEPTTR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Makler 250 SE	1,0 1,0	Application date: A: 17.03.2020 B: 07.04.2020 Assessment date: 17.03.2020 24.03.2020 07.04.2020 14.04.2020 21.04.2020 28.04.2020 10.07.2020 21.07.2020 08.08.2020 08.09.2020

A.T/2020/011/PO	Winter wheat/ Euforia FUSASP ERYSGR RHIZCE	Tiller Leaf Plant	FUSASP MIXED 100 ERYSGR MIXED 100 RHIZCE PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Makler 250 SE	1,0 1,0	Application date: A: 16.03.2020 B: 08.04.2020 Assessment date: 16.03.2020 23.03.2020 06.04.2020 13.04.2020 20.04.2020 27.04.2020 23.06.2020 26.06.2020 27.07.2020
A.T/2020/012/PO	Winter wheat/ RGT Reform PSDCHE FUSASP RHIZCE ERYSGR SEPTTR	Tiller Leaf Plant	PSDCHE PRINFC 100 FUSASP PRINFC 100 RHIZCE PRINFC 100 ERYSGR MIXED 100 SEPTTR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Makler 250 SE	1,0 1,0	Application date: A: 16.03.2020 B: 07.04.2020 Assessment date: 16.03.2020 23.03.2020 06.04.2020 13.04.2020 20.04.2020 27.04.2020 29.06.2020 15.08.2020
A.T/2020/013/PO	Winter wheat/ Arkadia PSDCHE FUSASP ERYSGR SEPTTR	Tiller Leaf Plant	PSDCHE MIXED 100 FUSASP PRINFC 100 ERYSGR MIXED 100 SEPTTR PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Makler 250 SE	1,0 1,0	Application date: 06.04.2020 Assessment date: 06.04.2020 13.04.2020 27.04.2020 07.05.2020 02.07.2020 07.07.2020 02.08.2020
AF/20/PO/1/Pr/01	Winter wheat/ Arkadia FUSASP ERYSGT	Leaf, Plant, Stem	FUSASP MIXED 100 ERYSGT MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE Makler 250 SE	1,0 1,0 1,0	Application date: A: 18.03.2020 B: 07.04.2020 C: 15.04.2020 Assessment date: 25.03.2020 01.04.2020 08.04.2020 15.04.2020 24.04.2020 09.07.2020 28.07.2020 23.09.2020
AF/20/PO/1/ZI/02	Winter wheat/ Bogatka FUSASP ERYSGT	Leaf, Plant, Stem	FUSASP MIXED 100 ERYSGT MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE Makler 250 SE	1,0 1,0 1,0	Application date: A: 18.03.2020 B: 08.04.2020 C: 24.04.2020 Assessment date: 25.03.2020 01.04.2020 08.04.2020 02.05.2020 07.05.2020 09.07.2020 25.07.2020 23.09.2020
AF/20/PO/1/Pr/03	Winter wheat/ Arkadia PYRNTR PUCCSI	Leaf, Plant	PYRNTR MIXED 100 PUCCSI MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE Makler 250 SE	1,0 1,0 1,0	Application date: 20.05.2020 Assessment date: 27.05.2020 03.06.2020 10.06.2020 24.06.2020 13.07.2020 27.07.2020 22.09.2020 05.10.2020

AF/20/PO/1/Br/04	Winter wheat/ Tonacja PYRNTR PUCCRT	Leaf, Plant	PYRNTR MIXED 100 PUCCRT MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: 27.05.2020 Assessment date: 03.06.2020 10.06.2020 17.06.2020 26.06.2020 10.07.2020 28.07.2020 23.09.2020
AF/20/PO/1/Br/05	Winter wheat/ FUSASP	Ear, Plant	FUSASP MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE Makler 250 SE	1,0 1,0 1,0	Application date: 09.06.2020 Assessment date: 16.06.2020 30.07.2020 06.07.2020 24.07.2020 16.09.2020 05.10.2020
SRCZ19-022-301FE	Winter wheat/ Avenue PSDCHA ERYSGR PUCCRE	Leaf, Plant	PSDCHA MIXED 100 ERYSGR MIXED 100 PUCCRE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 15.04.2019 Assessment date: 15.04.2019 22.04.2019 29.04.2019 19.05.2019 04.07.2019 05.08.2019 12.09.2019
SRCZ19-024-301FE	Winter wheat/ Pannonia PSDCHA ERYSGR PYRNTR	Leaf, Plant	PSDCHA MIXED 100 ERYSGR MIXED 100 PYRNTR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 20.04.2019 Assessment date: 20.04.2019 29.04.2019 10.05.2019 24.05.2019 25.06.2019 26.07.2019 12.09.2019
SRCZ19-023-301FE	Winter wheat/ Pannonia ERYSGR FUSASP PYRNTR	Leaf, Plant	ERYSGR MIXED 100 FUSASP MIXED 100 PYRNTR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 20.04.2019 Assessment date: 20.04.2019 29.04.2019 10.05.2019 24.05.2019 25.06.2019 26.07.2019 12.09.2019
SRCZ19-025-301FE	Winter wheat/ Amandus ERYSGR FUSASP	Leaf, Plant	ERYSGR MIXED 100 FUSASP MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 22.04.2019 Assessment date: 22.04.2019 29.04.2019 13.05.2019 22.05.2019 21.06.2019 20.07.2019 12.09.2019
SRCZ19-026-301FE	Winter wheat/ Avenue PYRNTR PUCCRE	Leaf, Plant	PYRNTR MIXED 100 PUCCRE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 27.05.2019 Assessment date: 27.05.2019 04.06.2019 11.06.2019 25.06.2019 09.07.2019 05.08.2019 12.09.2019

SRCZ19-029-301FE	Winter wheat/ Gordian PYRNTR PUCCRE	Leaf, Plant	PYRNTR MIXED 100 PUCCRE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 07.06.2019 Assessment date: 07.06.2019 14.06.2019 20.06.2019 02.07.2019 16.07.2019
SRCZ19-027-301FE	Winter wheat/ Butterfly SEPTTR ERYSGR	Leaf, Plant	SEPTTR MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: A:17.05.2019 B: 06.06.2019 Assessment date: 17.05.2019 24.05.2019 06.06.2019 13.06.2019 27.06.2019 31.07.2019 14.08.2019
SRCZ19-030-301FE	Winter wheat/ Patras FUSASP LEPTNO PUCCRE	Ear, Plant	FUSASP MIXED 100 LEPTNO MIXED 100 PUCCRE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 17.06.2019 Assessment date: 17.06.2019 24.06.2019 29.06.2019 04.07.2019 07.08.2019
SRDE20-101-301FE	Winter wheat/ RGT Reform PSDCHA FUSASP ERYSGR PUCCST	Leaf, Plant	PSDCHA PRINFC 100 FUSASP PRINFC 100 ERYSGR PRINFC 100 PUCCST MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Proline 375 SC Amistar 250 SC	0,8 1,0	Application date: 24.04.2020 Assessment date: 24.04.2020 04.05.2020 08.05.2020 22.05.2020 08.07.2020 30.07.2020
SRDE20-102-301FE	Winter wheat/ RGT Reform PSDCHA FUSASP ERYSGR PUCCST	Leaf, Plant	PSDCHA PRINFC 100 FUSASP PRINFC 100 ERYSGR PRINFC 100 PUCCST PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Proline 375 SC Amistar 250 SC	0,8 1,0	Application date: 24.04.2020 Assessment date: 24.04.2020 04.05.2020 13.05.2020 27.05.2020 08.07.2020 21.07.2020
SRDE20-103-301FE	Winter wheat/ Barranco PSDCHA FUSASP ERYSGR	Plant	PSDCHA PRINFC 100 FUSASP PRINFC 100 ERYSGR PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Proline 375 SC Amistar 250 SC	0,8 1,0	Application date: 23.04.2020 Assessment date: 23.04.2020 01.05.2020 14.05.2020 28.05.2020 15.07.2020 28.07.2020
SRDE20-104-301FE	Winter wheat/ RGT Reform PSDCHA FUSASP ERYSGR	Leaf, Plant	PSDCHA PRINFC 100 FUSASP PRINFC 100 ERYSGR PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Proline 375 SC Amistar 250 SC	0,8 1,0	Application date: 23.04.2020 Assessment date: 23.04.2020 30.04.2020 13.05.2020 25.05.2020 20.06.2020 15.07.2020 21.07.2020
SRCZ20-052-301FE	Winter wheat/ Gallus PSDCHA ERYSGR	Plant	PSDCHA MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 11.04.2020 Assessment date: 11.04.2020 21.04.2020 30.04.2020 14.05.2020 15.06.2020

								28.07.2020 17.09.2020
CHR_F_PROTAZO_EF F20_CZ02	Winter wheat/ Energo PSDCHA FUSASP	Plant	PSDCHA PRINFC 100 FUSASP PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 07.05.2020 Assessment date: 07.05.2020 14.05.2020 22.05.2020 07.06.2020 08.07.2020 07.08.2020 11.08.2020
SRDE20-105-301FE	Winter wheat/ Barranco SEPTTR ERYSGR FUSASP PUCCST	Leaf, Plant	SEPTTR MIXED, 100 ERYSGR PRINFC 100 FUSASP PRINFC 100 PUCCST PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Proline 375 SC Amistar 250 SC	0,8 1,0	Application date: A: 18.05.2020 B: 01.06.2020 Assessment date: 18.05.2020 26.05.2020 01.06.2020 08.06.2020 16.06.2020 06.07.2020 16.07.2020 28.07.2020
SRCZ20-054-301FE	Winter wheat/ Hybery FUSASP SEPTTR	Ear, Plant	FUSASP MIXED 100 SEPTTR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 11.06.2020 Assessment date: 11.06.2020 18.06.2020 02.07.2020 13.07.2020 29.07.2020 17.09.2020
SRCZ20-055-301FE	Winter wheat/ Tobak FUSASP SEPTTR PUCCST	Leaf, Plant	FUSASP PRINFC 100 SEPTTR MIXED 100 PUCCST MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Amistar 250 SC	1,0 1,0	Application date: 04.06.2020 Assessment date: 04.06.2020 11.06.2020 12.06.2020 25.06.2020 07.07.2020 29.07.2020 05.08.2020
SRDE20-106-301FE	Winter wheat/ Barranco FUSASP	Ear, Plant	FUSASP PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Proline 375 SC Azbany 250 SC	0,8 1,0	Application date: 19.06.2020 Assessment date: 19.06.2020 26.06.2020 03.07.2020 16.07.2020 21.07.2020 28.07.2020
CHR_F_PROTAZO_ EFF5_DE14	Winter wheat/ Elixer FUSASP	Ear, Plant	FUSASP PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Proline 375 SC Amistar 250 SC	0,8 1,0	Application date: 29.05.2020 Assessment date: 29.05.2020 08.06.2020 04.07.2020 29.07.2020
CHR_F_PROTAZO2 0_EFF5_DE15	Winter wheat/ Bergamo FUSASP LEPTNO	Ear, Plant	FUSASP PRINFC 100 LEPTNO PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Proline 375 SC Torero 250 SC	0,8 1,0	Application date: 28.05.2020 Assessment date: 28.05.2020 04.06.2020 11.06.2020 25.06.2020 09.07.2020 23.07.2020 15.10.2020

SRPL19-136-336FE	Winter wheat/ Tonacja PSDCHA ERYSGR	Leaf, Plant	PSDCHA MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: 26.04.2019 Assessment date: 26.04.2019 03.05.2019 10.05.2019 21.05.2019 31.05.2019 28.06.2019 20.07.2019 31.07.2019 01.08.2019
SRPL19-137-336FE	Winter wheat/ Arkadia PSDCHA	Stem, Plant	PSDCHA MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: 27.04.2019 Assessment date: 27.04.2019 04.05.2019 10.05.2019 24.05.2019 21.06.2019 04.07.2019 31.07.2019 28.08.2019
SRPL19-138-336FE	Winter wheat/ Jantarka FUSACU	Stem, Plant	FUSACU MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: 22.04.2019 Assessment date: 22.04.2019 29.04.2019 06.05.2019 20.05.2019 20.06.2019 25.07.2019
SRPL19-139-336FE	Winter wheat/ Sailor ERYSGR PSDCHA	Stem, Plant	ERYSGR MIXED 100 PSDCHA PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: 28.04.2019 Assessment date: 26.04.2019 06.05.2019 17.05.2019 31.05.2019 18.06.2019 31.07.2019
SRPL19-140-336FE	Winter wheat/ Linus PYRNSP	Leaf, Plant	PYRNSP MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: 20.05.2019 Assessment date: 20.05.2019 27.05.2019 03.06.2019 10.06.2019 17.06.2019 24.06.2019 04.07.2019 11.07.2019 25.07.2019
SRPL19-141-336FE	Winter wheat/ Jantarka FUSASP	Ear, Plant	FUSASP MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: 11.06.2019 Assessment date: 11.06.2019 18.06.2019 25.06.2019 09.07.2019 31.07.2019
SRPL19-144-336FE	Winter wheat/ Delawar SEPTTR LEPTNO	Leaf, Plant	SEPTTR MIXED 100 LEPTNO MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: A: 13.05.2019 B: 01.06.2019 Assessment date: 13.05.2019 20.05.2019 27.05.2019 01.06.2019 08.06.2019 14.06.2019 05.07.2019 15.07.2019 12.08.2019

								29.08.2019
SRPL19-145-336FE	Winter wheat/ Arkadia SEPTTR LEPTNO	Leaf, Plant	SEPTTR MIXED 100 LEPTNO MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: A: 04.05.2019 B: 24.05.2019 Assessment date: 04.05.2019 11.05.2019 24.05.2019 31.05.2019 07.06.2019 21.06.2019 11.07.2019 18.07.2019 30.07.2019
SRPL19-146-336FE	Winter wheat/ Patras SEPTTR	Leaf, Plant	SEPTTR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0,8 0,9 1,0	Delaro 325 SC Azoxin 250 SE	1,0 1,0	Application date: A: 10.05.2019 B: 31.05.2019 Assessment date: 10.05.2019 17.05.2019 31.05.2019 07.06.2019 14.06.2019 05.07.2019 16.07.2019

Notes:

- 1): Test report number including the year of establishing the trial
- (2): Plant part assessed and criteria for assessment
- (3): efficacy or intended effect
- (4): Relevant conclusions on effectiveness

Winter triticales

Test report (1)	Crop/ cultivar Harmful organism/ weed species or intended use	Assesse d part and variabl e (2) no / m²	Untreated BBCH (during application)	Efficacy treatments (3)				Remarks (4)
				Product		Standard (s)		
				name	Dose [L/ha]	name	dose [L /ha]	
SRPL19-142-336FE	Winter triticale /Borowik RHYNSE	Leaf, Plant	RHYNSE MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE	1.0 1.0	Application date: 06.05.2019 Assessment date: 06.05.2020 13.05.2020 20.05.2020 10.06.2020 19.06.2020 29.07.2020
SRPL19-143-336FE	Winter triticale / Grenad RHYNSE PUCCRE	Leaf, Plant	RHYNSE MIXED 100 PUCCRE PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE	1.0 1.0	Application date: 26.04.2019 Assessment date: 26.04.2019 03.05.2019 10.05.2019 31.05.2019 14.06.2019 24.07.2019 25.07.2019
A.T/2019/032/PŽO	Winter triticale / Meloman PYRNTR SEPTTR	Leaf, Plant	PYRNTR MIXED 100 SEPTTR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: 07.05.2019 Assessment date: 07.05.2019 14.05.2019 28.05.2019 18.06.2019 28.05.2019
A.T/2019/033/PŽO	Winter triticale / Aveo SEPTTR ERYSGR	Leaf, Plant	SEPTTR MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: A: 01.05.2019 B: 22.05.2019 Assessment date: 01.05.2019 07.05.2019 22.05.2019 29.05.2019 12.06.2019 12.07.2019
A.T/2019/034/PŽO	Winter triticale / Meloman FUSASP LEPTNO	Ear, Leaf, Plant	FUSASP PRINFC 100 LEPTNO PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: 04.06.2019 Assessment date: 04.06.2019 11.06.2019 18.05.2019 01.07.2019 25.07.2019
CZOR-SYT19-TTLSS- 030RYM	Winter triticale / Modus PYRNTR PUCCRE	Leaf, Plant	PYRNTR MIXED 100 PUCCRE MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Amistar 250 SC	1.0 1.0	Application date: 13.05.2020 Assessment date: 25.05.2019 01.06.2019 08.06.2019 22.06.2019 06.07.2019 05.08.2019

CZOR-SYT19-TTLSS-051NEC	Winter triticales / Cedrico SEPTTR PUCCRE	Leaf, Plant	SEPTTR MIXED 100 PUCCRE MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Amistar 250 SC	1.0 1.0	Application date: A: 21.05.2019 B: 10.06.2019 Assessment date: 21.05.2019 29.05.2019 10.06.2019 17.06.2019 02.07.2019 16.07.2019 03.08.2019 18.09.2019
CHR_F_PROTAZO_C Z11	Winter triticales /Cappricia SEPTTR ERYSGR	Leaf, Plant	A: SEPTTR MIXED 100 ERYSGR PRINFC 100 B: SEPTTR MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Amistar 250 SC	1.0 1.0	Application date: A: 23.05.2019 B: 12.06.2019 Assessment date: 23.05.2019 30.05.2019 06.06.2019 12.06.2019 19.06.2019 26.06.2019 11.07.2019 19.07.2019 24.08.2019 26.08.2019 04.09.2019
CZOR-SYT19-TTLSS-031RYM	Winter triticales /Triamant FUSASP LEPTNO	Ear, Plant	FUSASP MIXED 100 LEPTNO MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Amistar 250 SC	1.0 1.0	Application date: 20.06.2019 Assessment date: 27.06.2019 04.07.2019 11.07.2019 18.07.2019 05.08.2019
A.T/2020/014/PZO	Winter triticales / Orinoko PSDCHE FUSASP RHIZCE ERYSGR	Leaf, Stem, Plant	PSDCHE MIXED 100 FUSASP MIXED 100 RHIZCE PRINFC 100 ERYSGR PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: 17.03.2020 Assessment date: 17.03.2020 24.03.2020 07.04.2020 27.04.2020 22.06.2020 30.06.2020 29.07.2020
A.T/2020/015/PZO	Winter triticales / Fredro PSDCHE FUSASP RHIZCE ERYSGR	Leaf, Stem, Plant	PSDCHE PRINFC 100 FUSASP PRINFC 100 RHIZCE PRINFC 100 ERYSGR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: A: 17.03.2020 B: 07.04.2020 Assessment date: 17.03.2020 24.03.2020 07.04.2020 14.04.2020 21.04.2020 28.04.2020 10.07.2020 12.08.2020
A.T/2020/016/PZO	Winter triticales / Rotondo SEPTTR ERYSGR	Leaf, Plant	SEPTTR MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: A: 07.04.2020 B: 05.05.2020 Assessment date: 07.04.2020 17.04.2020 23.04.2020 05.05.2020 12.05.2020

								26.05.2020 16.06.2020 19.06.2020 11.08.2020
A.T/2020/017/PZO	Winter triticales / Panteon SEPTTR ERYSGR	Leaf, Plant	SEPTTR MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: A: 08.04.2020 B: 06.05.2020 Assessment date: 08.04.2020 15.04.2020 23.04.2020 06.05.2020 13.05.2020 27.05.2020 16.06.2020 03.07.2020 07.08.2020
A.T/2020/018/PZO	Winter triticales / Porto RHYNSE ERYSGR	Leaf, Plant	RHYNSE MIXED 100 ERYSGR PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: 09.04.2020 Assessment date: 09.04.2020 16.04.2020 27.04.2020 14.05.2020 22.06.2020 09.08.2020
A.T/2020/019/PZO	Winter triticales/ Rotondo RHYNSE PUCCRE PYRNTR	Leaf, Plant	RHYNSE MIXED 100 PUCCRE PRINFC 100 PYRNTR PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: 15.05.2020 Assessment date: 15.05.2020 22.05.2020 05.06.2020 23.06.2020 03.07.2020 11.08.2020 03.09.2020
A.T/2020/020/PZO	Winter triticales / Orinoko RHYNSE	Leaf, Plant	RHYNSE MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: 08.05.2020 Assessment date: 08.05.2020 15.05.2020 27.05.2020 09.06.2020 30.06.2020 29.07.2020
A.T/2020/021/PZO	Winter triticales / Panteon PYRNTR LEPTNO	Leaf, Plant	PYRNTR PRINFC 100 LEPTNO MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Makler 250 SE	1.0 1.0	Application date: 28.05.2020 Assessment date: 08.05.2020 04.06.2020 17.06.2020 26.06.2020 02.07.2020 07.08.2020
AF/20/PszO/1/Pr/01	Winter triticales / Grenado FUSASP ERYSGT	Leaf, Plant	FUSASP MIXED 100 ERYSGT MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: A: 18.03.2020 B: 07.04.2020 C: 15.04.2020 Assessment date: 18.03.2020 25.03.2020 01.04.2020

								08.04.2020 15.04.2020 24.04.2020 09.07.2020 30.07.2020 23.09.2020
AF/20/PszO/1/Br/02	Winter triticales / Twingo FUSASP ERYSGT	Stem, Leaf, Plant	FUSASP MIXED 100 ERYSGT MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: 07.04.2020 Assessment date: 14.04.2020 21.04.2020 28.04.2020 09.07.2020 30.07.2020 23.09.2020
AF/20/PszO/1/Pr/03	Winter triticales / Grenado PYRNTR PUCCSI	Leaf, Plant	PYRNTR MIXED 100 PUCCSI MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: 18.05.2020 Assessment date: 25.05.2020 01.06.2020 08.06.2020 24.06.2020 14.07.2020 30.07.2020 18.09.2020 05.10.2020
AF/20/PszO/1/Br/04	Winter triticales / Twingo PYRNTR PUCCRT	Leaf, Plant	PYRNTR PUCCRT	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: 16.05.2020 Assessment date: 23.05.2020 30.05.2020 06.06.2020 24.06.2020 10.07.2020 29.07.2020 17.09.2020 05.10.2020
AF/20/PszO/1/Zl/05	Winter triticales / Aliko PHSPSP	Ear, Plant	PHSPSP MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: 28.05.2020 Assessment date: 05.06.2020 12.06.2020 26.06.2020 06.07.2020 27.07.2020 30.09.2020
AF/20/PszO/1/Br/06	Winter triticales / Twingo PHSPSP	Ear, Plant	PHSPSP MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: 29.05.2020 Assessment date: 05.06.2020 12.06.2020 26.06.2020 06.07.2020 24.07.2020 30.09.2020 05.10.2020
SRCZ20-056-301FE	Winter triticales / Talentro RHYNSE ERYSGR	Leaf, Plant	RHYNSE MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Amistar 250 SC	1.0 1.0	Application date: 13.05.2020 Assessment date: 13.05.2020 21.05.2020 03.06.2020 17.06.2020 07.07.2020 12.08.2020 16.09.2020

SRCZ20-057-301FE	Winter triticales /Agostino RHYNSE ERYSGR	Leaf, Plant	RHYNSE MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Amistar 250 SC	1.0 1.0	Application date: 18.05.2020 Assessment date: 18.05.2020 27.05.2020 03.06.2020 22.06.2020 13.07.2020 12.08.2020 16.09.2020
SRCZ20-058-301FE	Winter triticales /Agostino RHYNSE SEPTTR ERYSGR	Leaf, Plant	RHYNSE MIXED 100 SEPTTR MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Amistar 250 SC	1.0 1.0	Application date: 20.05.2020 Assessment date: 20.05.2020 29.05.2020 09.06.2020 03.07.2020 31.07.2020 07.08.2020 18.08.2020
SRDE20-107-301FE	Winter triticales / SU Agendus FUSASP ERYSGR	Ear, Leaf, Plant	FUSASP PRINFC 100 ERYSGR PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: 22.04.2020 Assessment date: 29.04.2020 13.05.2020 27.05.2020 22.06.2020 01.07.2020
SRDE20-108-301FE	Winter triticales / Tender PUCCST	Ear, Leaf, Plant	PUCCST MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Input Classic 460 EC Amistar 250 SC	1.25 1.0	Application date: 16.05.2020 Assessment date: 15.05.2020 27.05.2020 07.06.2020 23.06.2020 01.07.2020 23.07.2020
SRDE20-109-301FE	Winter triticales / SU Agendus FUSASP	Ear, Plant	FUSASP PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Input Classic 460 EC Azbany 250 SC	1.25 1.0	Application date: 27.05.2020 Assessment date: 27.05.2020 05.06.2020 10.06.2020 24.06.2020
CHR-F-PROTAZO- EFF01-DE016	Winter triticales / Lombardo FUSACU ERYSGR	Leaf, Plant	FUSACU MIXED 100 ERYSGR PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: 08.04.2020 Assessment date: 08.04.2020 18.04.2020 29.04.2020 15.05.2020 23.06.2020 25.07.2020
CHR_F_PROTAZO20_ EFF3_DE17	Winter triticales / SW Talentro RHYNSE	Leaf, Plant	RHYNSE SPORUL 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: 28.04.2020 Assessment date: 28.04.2020 07.05.2020 22.05.2020 04.06.2020 17.06.2020 24.07.2020

CHR_F_PROTAZO20_ EFF2_DE18	Winter triticales / Barolo SEPTTR ERYSGR PUCCST PUCCRE	Leaf, Plant	SEPTTR MIXED 100 ERYSGR MIXED 100 PUCCST MIXED 100 PUCCRE PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Proline 250 EC Torero 250 SC	0.8 1.0	Application date: 06.05.2020 Assessment date: 06.05.2020 13.05.2020 26.05.2020 02.06.2020 09.06.2020 23.06.2020 02.07.2020 29.07.2020 13.10.2020
CHR_F_PROTAZO20_ EFF2_DE19	Winter triticales / Lombardo SEPTTR PUCCRR	Leaf, Plant	A: SEPTTR PRINFC 100 PUCCRR PRINFC 100 B: SEPTTR MIXED 100 PUCCRR PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: A: 29.04.2020 B: 12.05.2020 Assessment date: 29.04.2020 08.05.2020 12.05.2020 19.05.2020 02.06.2020 19.06.2020 02.07.2020 24.07.2020
CHR_F_PROTAZO20_ EFF4_DE20	Winter triticales / SW Talentro PUCCRE PUCCST	Leaf, Plant	PUCCRE PRINFC 100 PUCCST PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: 07.05.2020 Assessment date: 07.05.2020 14.05.2020 22.05.2020 04.06.2020 24.06.2020 24.07.2020
CHR_F_PROTAZO20_ EFF4_DE21	Winter triticales / Lombardo SEPTTR PUCCRR	Leaf, Plant	SEPTTR PUCCRR	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: 05.05.2020 Assessment date: 05.05.2020 12.05.2020 25.05.2020 02.06.2020 19.06.2020 02.07.2020 24.07.2020
CHR_F_PROTAZO20_ EFF5_DE22	Winter triticales / Robinson FUSASP SEPTTR	Ear, Plant	FUSASP PRINFC 100 SEPTTR PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: 25.05.2020 Assessment date: 25.05.2020 01.06.2020 15.06.2020 02.07.2020 25.07.2020
SRPL2020_404_336_F E	Winter triticales / Sekret ERYSGR	Leaf, Plant	ERYSGR MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE	1.0 1.0	Application date: A: 09.05.2020 B: 30.05.2020 Assessment date: 09.05.2020 16.05.2020 30.05.2020 06.06.2020 27.05.2020 30.07.2020
SRPL2020_405_336FE	Winter triticales / Tadeus FUSACU	Ear, Leaf, Plant	FUSACU PRINFC 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Azoxin 250 SE	1.0 1.0	Application date: 10.06.2020 Assessment date: 10.06.2020 17.06.2020

								24.06.2020 08.07.2020 27.07.2020
SRPL2020_406_336FE	Winter triticale / Rotondo FUSACU LEPTNO	Ear, Leaf, Plant	FUSACU PRINFC 100 LEPTNO MIXED 100	1.CHR/F/PROT AZO 2.CHR/F/PROT AZO 3.CHR/F/PROT AZO	0.8 0.9 1.0	Delaro 325 SC Amistar 250 SE	1.0 1.0	Application date: 09.06.2020 Assessment date: 09.06.2020 16.06.2020 23.06.2020 07.07.2020 24.07.2020

Notes:

- 1): Test report number including the year of establishing the trial
- (2): Plant part assessed and criteria for assessment
- (3): efficacy or intended effect
- (4): Relevant conclusions on effectiveness

Spring barley

Test report (1)	Crop/ cultivar Harmful organism/ weed species or intended use	Assessed part and variable (2) no / m²	Untreated BBCH (during application)	Efficacy treatments (3)				Remarks (4)
				Product		Standard (s)		
				name	Dose [L/ha]	name	dose [L /ha]	
A.T/2020/86/JJ	Spring barely/ RGT Planet PYRNTE RHYNSE	Leaf Plant	A: PYRNTE PRINFC 100 RHYNSE PRINFC 100 B: PYRNTE MIXED 100 RHYNSE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Makler 250 SE	1.0 1.0	Application date: A: 08.05.2020 B: 03.06.2020 Assessment date: 08.05.2020 15.05.2020 22.05.2020 03.06.2020 10.06.2020 22.06.2020 01.07.2020 24.07.2020
A.T/2020/87/JJ	Spring barely/ KWS IRINA PYRNTE ERYSGR	Leaf Plant	PYRNTE MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Makler 250 SE	1.0 1.0	Application date: A: 22.05.2020 B: 12.06.2020 Assessment date: 22.05.2020 29.05.2020 12.06.2020 19.06.2020 26.06.2020 10.07.2020 11.08.2020
A.T/2020/88/JJ	Spring barely/ Propino PYRNTE ERYSGR	Leaf Plant	PYRNTE MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Makler 250 SE	1.0 1.0	Application date: A: 20.05.2020 B: 09.06.2020 Assessment date: 20.05.2020 27.05.2020 09.06.2020 16.06.2020 23.06.2020 07.07.2020 07.08.2020
A.T/2020/89/JJ	Spring barely/ Quench PYRNTE RHYNSE	Leaf Plant	RHYNSE PRINFC 100 PYRNTE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Makler 250 SE	1.0 1.0	Application date: A: 15.05.2020 B: 03.06.2020 Assessment date: 15.05.2020 22.05.2020 29.05.2020 03.06.2020 10.06.2020 18.06.2020 08.07.2020 15.07.2020 06.08.2020
A.T/2020/090/JJ	Spring barely/ RGT Planet PUCCHD PYRNTE RHYNSE	Leaf Plant	PUCCHD PRINFC 100 PYRNTE MIXED 100 RHYNSE PRINFC 100, MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Makler 250 SE	1.0 1.0	Application date: A: 18.05.2020 B: 08.06.2020 Assessment date: 18.05.2020 25.05.2020 08.06.2020 15.06.2020 22.06.2020 07.07.2020 24.07.2020 18.08.2020

A.T/2020/091/JJ	Spring barely/ Laureate PUCCHD PYRNTE COCHSA	Leaf Plant	PUCCHD PRINFC 100 PYRNTE PRINFC 100, MIXED 100 COCHSA MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Makler 250 SE	1.0 1.0	Application date: A: 15.05.2020 B: 03.06.2020 Assessment date: 15.05.2020 22.05.2020 29.05.2020 03.06.2020 10.06.2020 17.06.2020 09.07.2020 15.07.2020 05.08.2020 08.09.2020
A.T/2020/092/JJ	Spring barely/ Ellinor	Ear, Plant	FUSASP PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Fandango 200 EC Tazer 250 SC	1.0 1.0	Application date: 04.06.2020 Assessment date: 02.06.2020 04.06.2020 11.06.2020 03.07.2020 29.07.2020
A.T/2020/093/JJ	Spring barely/ Quench FUSASP	Ear, Plant	FUSASP PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Fandango 200 EC Tazer 250 SC	1.0 1.0	Application date: 24.06.2020 Assessment date: 01.07.2020 15.07.2020 06.08.2020
A.T/2021/102/JJ	Spring barely/KWS Vermont FUSASP	Ear, Plant	FUSASP PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Fandango 200 EC Tazer 250 SC	1.0 1.0	Application date: 16.06.2021 Assessment date: 23.06.2021 07.07.2021 23.07.2021
AF/20/JJ/1/Z1/01	Spring barely/ Stratus PYRNTE ERYSGR	Leaf, Plant	PYRNTE MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: A: 20.05.2020 B: 10.06.2020 Assessment date: 27.06.2020 03.06.2020 17.06.2020 24.06.2020 06.07.2020 23.07.2020 03.08.2020
AF/20/JJ/1/Z1/02	Spring barely/ Stratus RHYNSE ERYSGR	Leaf, Plant	RHYNSE MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: A: 20.05.2020 B: 10.06.2020 Assessment date: 27.05.2020 03.06.2020 17.06.2020 24.06.2020 06.07.2020 23.07.2020 03.08.2020
AF/20/JJ/1/Br/03	Spring barely/ Iron RHYNSE ERYSGR	Leaf, Plant	RHYNSE MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: A: 29.05.2020 B: 19.06.2020 Assessment date: 05.06.2020 12.06.2020 19.06.2020 26.06.2020 03.07.2020 10.07.2020 31.07.2020 30.09.2020

AF/20/JJ/1/Pr/04	Spring barely/ Penguin PUCCHD	Leaf, Plant	PUCCHD MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: A: 26.05.2020 B: 16.06.2020 Assessment date: 02.06.2020 16.06.2020 23.06.2020 30.06.2020 07.07.2020 30.07.2020 30.09.2020
AF/20/JJ/1/Br/05	Spring barely/ Iron PUCCHD	Leaf, Plant	PUCCHD MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Elatus Era 225 EC Azoxin 250 SE/ Makler 250 SE	1.0 1.0	Application date: A: 29.05.2020 B: 19.06.2020 Assessment date: 05.06.2020 12.06.2020 19.06.2020 26.06.2020 03.07.2020 10.07.2020 31.07.2020 30.09.2020
AF/20/JJ/1/Pr/06	Spring barely/ Penguin FUSACU	Leaf, Plant	FUSACU PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Fandango 200 EC Tazer 250 SC	1.0 1.0	Application date: 09.06.2020 Assessment date: 16.06.2020 23.06.2020 03.07.2020 30.07.2020 30.09.2020
AF/20/JJ/1/Br/07	Spring barely/ Iron FUSACU	Leaf, Plant	FUSACU PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Fandango 200 EC Tazer 250 SC	1.0 1.0	Application date: 09.06.2020 Assessment date: 16.06.2020 30.06.2020 31.07.2020 30.09.2020
AF/21/JJ/19/ZI/1	Spring barely/ Kucyk FUSACU	Ear, Plant	FUSACU MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Fandango 200 EC Tazer 250 SC	1.0 1.0	Application date: 18.06.2021 Assessment date: 25.06.2021 07.07.2021 20.07.2021 04.08.2021
AF/21/JJ/19/Br/2	Spring barely/ Iron FUSACU	Ear, Plant	FUSACU MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Fandango 200 EC Tazer 250 SC	1.0 1.0	Application date: 14.06.2021 Assessment date: 21.06.2021 30.06.2021 16.07.2021 31.07.2021 04.08.2021
AF/21/JJ/19/Ra/3	Spring barely/ Orphelia FUSACU	Ear, Plant	FUSACU MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Fandango 200 EC Tazer 250 SC	1.0 1.0	Application date: 25.06.2021 Assessment date: 02.07.2021 09.07.2021 22.07.2021 09.08.2021
CZOR-SYT19-HORVS- 069NEC	Spring barley/ Malz PYRNTE PUCCHD	Leaf, Plant	A: PYRNTE PRINFC 100 PUCCHD PRINFC 100 B: PYRNTE MIXED 100 PUCCHD PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Amistar 250 SC Elatus Era 225 EC	1.0 1.0	Application date: A: 31.05.2019 B: 21.06.2019 Assessment date: 31.05.2019 07.06.2019 21.06.2019 28.06.2019 10.07.2019 06.08.2019 24.09.2019

CZOR-SYT19-HORVS-041RY	Spring barley/ Francin PYRNTE	Leaf, Plant	PYRNTE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Amistar 250 SC Elatus Era 225 EC	1.0 1.0	Application date: A: 13.06.2019 B: 04.07.2019 Assessment date: 13.06.2019 20.06.2019 27.06.2019 11.07.2019 25.07.2019 13.08.2019
CZOR-SYT19-HORVS-070NEC	Spring barley/ Sebastian PYRNTE RHYNSE	Leaf, Plant	A: PYRNTE PRINFC 100 RHYNSE PRINFC 100 B: PYRNTE MIXED 100 RHYNSE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Amistar 250 SC Elatus Era 225 EC	1.0 1.0	Application date: A: 31.05.2019 B: 21.06.2019 Assessment date: 31.05.2019 07.06.2019 21.06.2019 28.06.2019 11.07.2019 03.08.2019 27.09.2019
CZOR-SYT19-HORVS-042RYM	Spring barley/ Francin RHYNSE	Leaf, Plant	RHYNSE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Amistar 250 SC Elatus Era 225 EC	1.0 1.0	Application date: A: 13.06.2019 B: 04.07.2019 Assessment date: 13.06.2019 20.06.2019 27.06.2019 11.07.2019 25.07.2019 13.08.2019
CZOR-SYT19-HORVS-043RYM	Spring barley/ Francin PUCCHD	Leaf, Plant	PUCCHD MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Amistar 250 SC Elatus Era 225 EC	1.0 1.0	Application date: A: 13.06.2019 B: 04.07.2019 Assessment date: 13.06.2019 20.06.2019 27.06.2019 11.07.2019 25.07.2019 13.08.2019
SRCZ20-066-301FE	Spring barley/ Laudis PYRNTE RHYNSE PUCCHD ERYSGR	Leaf, Plant	PYRNTE MIXED 100 RHYNSE MIXED 100 PUCCHD MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	DELARO 325 SC Amistar 250 SC	0.75 0.8	Application date: A: 27.05.2020 B: 09.06.2020 Assessment date: 27.05.2020 04.06.2020 09.06.2020 17.06.2020 08.07.2020 07.08.2020 18.08.2020 08.09.2020
SRCZ20-067-301FE	Spring barley/ KWS Amadora RHYNSE PUCCHD ERYSGR	Leaf, Plant	RHYNSE MIXED 100 PUCCHD MIXED 100 ERYSGR MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	DELARO 325 SC Amistar 250 SC	0.75 0.8	Application date: A: 27.05.2020 B: 15.06.2020 Assessment date: 27.05.2020 04.06.2020 15.06.2020 30.06.2020 09.07.2020 30.07.2020 06.08.2020
SRCZ20-064-301FE	Spring barley/ Solist PYRNTE RHYNSE PUCCHD	Leaf, Plant	PYRNTE MIXED 100 RHYNSE MIXED 100 PUCCHD MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	DELARO 325 SC Amistar 250 SC	0.75 0.8	Application date: A: 21.05.2020 B: 04.06.2020 Assessment date: 21.05.2020 29.05.2020 03.06.2020 15.06.2020 03.07.2020 07.07.2020

								18.08.2020
CZOR-CPP20-HORVS-075SYT	Spring barley/ KWS Amadora PYRNTE PUCCHD	Leaf, Plant	PYRNTE MIXED 100 PUCCHD MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	DELARO 325 SC Amistar 250 SC	0.75 0.8	Application date: A: 22.05.2020 B: 04.06.2020 Assessment date: 22.05.2020 01.06.2020 04.06.2020 15.06.2020 02.07.2020 31.07.2020 06.08.2020
SRDE20-151-301FE	Spring barley/ Avalon ERYSGR PYRNTE PUCCHD RHYNSE	Leaf, Plant	A: ERYSGR MIXED 100 PYRNTE PRINFC 100 PUCCHD PRINFC 100 RHYNSE PRINFC 100 B: ERYSGR PRINFC 100 PYRNTE MIXED 100 PUCCHD PRINFC 100 RHYNSE PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Proline 250 EC Azbany 250 SC	0.8 1.0	Application date: A: 15.05.2020 B: 18.06.2020 Assessment date: 15.05.2020 22.05.2020 05.06.2020 18.06.2020 29.06.2020 17.07.2020 27.07.2020
CHR_F_PROTAZO20_EF F8_DE27	Spring barley/ Planet PYRNTE RHYNSE PUCCHD	Leaf, Plant	PYRNTE PRINFC 100 RHYNSE PUCCHD	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: A: 29.05.2020 B: 15.06.2020 Assessment date: 29.05.2020 08.06.2020 15.06.2020 29.06.2020 13.07.2020 14.08.2020
CHR_F_PROTAZO20_EF F8_DE28	Spring barley/ Leandra PYRNTE RHYNSE PUCCHD MEHITE	Leaf, Plant	PYRNTE PRINFC 100 RHYNSE PRINFC 100 PUCCHD PRINFC 100 MEHITE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: A: 27.05.2020 B: 09.06.2020 Assessment date: 27.05.2020 03.06.2020 09.06.2020 30.06.2020 07.08.2020
CHR_F_PROTAZO20_EF F8_DE29	Spring barley/ Avalon RAMUCC	Leaf, Plant	RAMUCC PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: 02.06.2020 Assessment date: 02.06.2020 09.06.2020 20.06.2020 06.07.2020 18.06.2020
CHR_F_PROTAZO20_EF F8_DE30	Spring barley/ Avalon RAMUCC	Leaf, Plant	RAMUCC PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Proline 250 EC Amistar 250 SC	0.8 1.0	Application date: 22.05.2020 Assessment date: 22.05.2020 29.05.2020 05.06.2020 26.06.2020 07.07.2020 06.08.2020

SRPL19-301-336FE	Spring barley/ Extase PYRNTE	Leaf, Plant	PYRNTE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Makler 250 SE Elatus Era 225 EC	1.0 1.0	Application date: A: 13.05.2019 B: 03.06.2019 Assessment date: 20.05.2019 03.06.2019 10.06.2019 17.06.2019 01.07.2019 29.07.2019 30.07.2019
SRPL19-302-336FE	Spring barley/ KWS Atrika PYRNTE	Leaf, Plant	PYRNTE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Makler 250 SE Elatus Era 225 EC	1.0 1.0	Application date: A: 06.05.2019 B: 27.05.2019 Assessment date: 13.05.2019 27.05.2019 03.06.2019 10.06.2019 24.06.2019 18.07.2019
SRPL19-303-336FE	Spring barley/Kucyk RHYNSE	Leaf, Plant	RHYNSE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Makler 250 SE Elatus Era 225 EC	1.0 1.0	Application date: A: 24.05.2019 B: 14.06.2019 Assessment date: 24.05.2019 31.05.2019 07.06.2019 14.06.2019 21.06.2019 28.06.2019 12.07.2019 19.07.2019 09.08.2019
SRPL19-304-336FE	Spring barley/ Soldo PYRNTE RHYNSE	Leaf, Plant	PYRNTE MIXED 100 RHYNSE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Makler 250 SE Elatus Era 225 EC	1.0 1.0	Application date: A: 20.05.2019 B: 03.06.2019 Assessment date: 20.05.2019 30.05.2019 03.06.2019 10.06.2019 17.06.2019 01.07.2019 29.07.2019 04.09.2019
SRPL19-305-336FE	Spring barley/ Scorpion ERYSGH	Leaf, Plant	ERYSGH MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Makler 250 SE Elatus Era 225 EC	1.0 1.0	Application date: A: 10.05.2019 B: 31.05.2019 Assessment date: 10.05.2019 17.05.2020 24.05.2019 07.06.2019 21.06.2019 26.07.2019
SRPL19-306-336FE	Spring barley/ Kucyk PYRNTE	Leaf, Plant	PYRNTE MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Makler 250 SE Elatus Era 225 EC	1.0 1.0	Application date: A: 01.05.2019 B: 22.05.2019 Assessment date: 01.05.2019 08.05.2019 22.05.2019 30.05.2019 05.06.2019 20.06.2019 15.07.2019
SRPL19-307-336FE	Spring barley/ Antek PUCCHD	Leaf, Plant	PUCCHD MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Makler 250 SE Elatus Era 225 EC	1.0 1.0	Application date: A: 30.04.2019 B: 21.05.2019 Assessment date: 30.04.2019 07.05.2019 21.05.2019

								28.05.2019 11.06.2019 25.06.2019 24.07.2019
SRPL19-308-336FE	Spring barley/ Kucyk PUCCHD	Leaf, Plant	PUCCHD MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Makler 250 SE Elatus Era 225 EC	1.0 1.0	Application date: A: 01.05.2019 B: 22.05.2019 Assessment date: 01.05.2019 08.05.2019 22.05.2019 30.05.2019 05.06.2019 20.06.2019 15.07.2019

Notes:

- 1): Test report number including the year of establishing the trial
- (2): Plant part assessed and criteria for assessment
- (3): efficacy or intended effect
- (4): Relevant conclusions on effectiveness

Winter oilseed rape

Test report (1)	Crop/ cultivar Harmful organism/ weed species or intended use	Assessed part and variable (2) no / m ²	Untreated BBCH (during application)	Efficacy treatments (3)				Remarks (4)
				Product		Standard (s)		
				name	Dose [L/ha]	name	dose [L /ha]	
A.T/2019/035/RZO	winter oilseed rape / Kuga ALTEBA	Plant, Leaf, Stem, Pod	ALTEBA PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Makler 250 SE	0.75 1.0	Application date: 30.04.2019 Assessment date: 30.05.2019 14.05.2019 28.05.2019 13.06.2019 02.07.2019 23.08.2019
A.T/2019/036/RZO	winter oilseed rape / Hamilton ALTEBA	Plant, Leaf, Stem, Pod	ALTEBA PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Makler 250 SE	0.75 1.0	Application date: 13.05.2019 Assessment date: 13.05.2019 27.05.2019 03.06.2019 17.06.2019 02.07.2019 20.07.2019
A.T/2019/037/RZO	Winter oilseed rape/ Hamilton SCLESC VERTLO	stem	SCLESC PRINFC 100 VERTLO PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Makler 250 SE	0.75 1.0	Application date: 25.04.2019 Assessment date: 09.05.2019 02.07.2019 20.07.2019 31.07.2019
A.T/2019/038/RZO	Winter oilseed rape/ Hamilton SCLESC VERTLO	stem	SCLESC PRINFC 100 VERTLO PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Makler 250 SE	0.75 1.0	Application date: 01.05.2019 Assessment date: 15.05.2019 01.07.2019 28.07.2019 20.08.2019
A.T/2020/022/RZO	Winter oilseed rape/ Dominator SCLESC VERTLO	stem	SCLESC PRINFC 100 VERTLO PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Makler 250 SE	0.75 1.0	Application date: 21.04.2020 Assessment date: 05.05.2020 15.05.2020 01.07.2020 15.07.2020 03.08.2020
A.T/2020/023/RZO	Winter oilseed rape/ Bonanza SCLESC	Stem leaf	SCLESC 30.04.2020	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Makler 250 SE	0.75 1.0	Application date: 30.04.2020 Assessment date: 14.05.2020 28.05.2020 30.06.2020 01.08.2020 04.09.2020

A.T/2020/024/RZO	Winter oilseed rape/ Dominator SCLESC ALTEBA	Plant, Leaf, Stem, Pod	SCLESC PRINFC 100 ALTEBA MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Makler 250 SE	0.75 1.0	Application date: 03.05.2020 Assessment date: 03.05.2020 15.05.2020 29.05.2020 01.07.2020 13.07.2020 15.07.2020 20.07.2020
AF/20/RO/1/Pr/01	Winter oilseed rape / Harry SCLESC	Stem	SCLESC VERTSP	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Azoxin 250 SE /Makler 250 SE	0.75 1.0	Application date: 27.04.2020 Assessment date: 04.05.2020 12.05.2020 18.05.2020 14.07.2020 17.07.2020 02.09.2020
AF/20/RO/1/Pr/02	Winter oilseed rape / Harry ALTEBA BOTRCI	Leaf, Plant	ALTEBA BOTRCI	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Azoxin 250 SE/Makler 250 SE	0.75 1.0	Application date: 08.05.2020 Assessment date: 15.05.2020 25.05.2020 02.06.2020 14.07.2020 17.07.2020 02.09.2020
AF/20/RO/1/ZL/03	winter oilseed rape/ Graf ALTEBA BOTRCI	Leaf, Plant	ALTEBA BOTRCI	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Toledo Extra 430 SC Azoxin 250 SE/Makler 250 SE	0.75 1.0	Application date: 08.05.2020 Assessment date: 18.05.2020 27.05.2020 05.06.2020 14.07.2020 17.07.2020 02.09.2020
SRCZ19-028-301FE	winter oilseed rape / Alicante ALTESP BOTRSP	Plant, Leaf, Stem, Pod	ALTESP BOTRSP MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Tilmor 240 EC Amistar 250 SE	1.0 1.0	Application date: 14.05.2019 Assessment date: 14.05.2019 21.05.2019 28.05.2019 24.06.2019 22.07.2019 12.09.2019
SRCZ20-059-301FE	winter oilseed rape / LG Architect SCLESC ALTEBA	Plant, Leaf, Stem, Pod	SCLESC PRINFC 100 ALTEBA MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Tilmor 240 EC Amistar 250 SE	1.0 1.0	Application date: 28.04.2020 Assessment date: 08.04.2020 05.05.2020 12.05.2020 20.05.2020 06.06.2020 22.07.2020 15.09.2020
SRCZ20-060-301FE	winter oilseed rape / DK Expansion ALTEBA LEPTMA	Plant, Leaf, Stem, Pod	ALTEBA PRINFC 100 LEPTMA MIXED 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Tilmor 240 EC Amistar 250 SE	1.0 1.0	Application date: 29.04.2020 Assessment date: 29.04.2020 06.05.2020 13.05.2020 22.05.2020 07.07.2020 21.07.2020 15.09.2020

SRCZ20-061-301FE	winter oilseed rape / Arabela LEPTMA VERTLO ERYSCR PYRPBR BOTRCI ALTEBA	Plant, Leaf, Stem, Pod	LEPTMA VERTLO ERYSCR PYRPBR BOTRCI ALTEBA	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Tilmor 240 EC Amistar 250 SE	1.0 1.0	Application date: 08.05.2020 Assessment date: 08.05.2020 15.05.2020 22.05.2020 25.06.2020 27.07.2020 15.09.2020
SRDE20-110-301FE	winter oilseed rape / Archipel SCLESC	Plant, Stem, Pod, Root	SCLESC PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Proline 250 EC Ortiva 250 SC	0.7 1.0	Application date: 08.05.2020 Assessment date: 08.05.2020 15.05.2020 22.05.2020 07.07.2020 20.07.2020
SRDE20-111-301FE	winter oilseed rape / Archipel SCLESC	Plant, Stem, Pod, Root	SCLESC PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Proline 250 EC Ortiva 250 SC	0.7 1.0	Application date: 07.05.2020 Assessment date: 07.05.2020 14.05.2020 21.05.2020 28.05.2020 06.07.2020 20.07.2020
SRDE20-112-301FE	winter oilseed rape / ES Vito ALTEBA	Plant, Leaf, Stem, Pod, Root	ALTEBA PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Propulse 250 SE Ortiva 250 SC	1.0 1.0	Application date: 12.05.2020 Assessment date: 12.05.2020 19.05.2020 26.05.2020 02.06.2020 01.07.2020 18.07.2020
SRDE20-113-301FE	winter oilseed rape / Archipel ALTEBA	Plant, Leaf, Stem, Pod, Root	ALTEBA PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Propulse 250 SE Ortiva 250 SC	1.0 1.0	Application date: 12.05.2020 Assessment date: 12.05.2020 19.05.2020 26.05.2020 02.06.2020 06.07.2020 20.07.2020
CHR_F_PROTAZO20_EFF06_DE23	winter oilseed rape / Alvaro SCLESC VERTLO	Plant, Stem, Pod	SCLESC PRINFC 100 VERTLO PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Proline 250 EC Ortiva 250 SC	0.7 1.0	Application date: 24.04.2020 Assessment date: 24.04.2020 30.04.2020 08.05.2020 14.05.2020 23.07.2020 03.08.2020
CHR_F_PROTAZO20_EFF07_DE24	winter oilseed rape / Horace ALTEBA	Plant, Pod	ALTEBA PRINFC 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Proline 250 EC Ortiva 250 SC	0.7 1.0	Application date: 11.05.2020 Assessment date: 11.05.2020 18.05.2020 25.05.2020 01.06.2020 03.07.2020 24.07.2020

CZOR-SYT19-BRSNN-088KUJ	winter oilseed rape /DK Exstorm VERTDA SCLESC	Plant, Stem	VERTDA PRINFC 100 SCLESC SPORUL 100	1.CHR/F/PROTAZO 2.CHR/F/PROTAZO 3.CHR/F/PROTAZO	0.8 0.9 1.0	Tilmor 240 EC Amistar 250 SE	1.0 1.0	Application date: 07.05.2019 Assessment date: 07.05.2020 21.05.2020 08.06.2020 12.07.2020 18.07.2020 24.07.2020
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Notes:

- 1): Test report number including the year of establishing the trial
- (2): Plant part assessed and criteria for assessment
- (3): efficacy or intended effect
- (4): Relevant conclusions on effectiveness

Appendix 5 Summary of detailed data on fungicide effectiveness trials

Table 1. The efficacy of CHR/F/PROTAZO in control of *PSDCHE Oculimacula yallundae* in winter wheat.

							No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV (class II, III, IV)	% PESSEV (class II, III, IV) summary	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C.	Makler 250 SE, Amistar	LSD (P=.05)
								Rate (l/ha)	0,80	0,90	1,00	1,00	1,00	
PSDCHE (Oculimacula yallundae)	SRCZ19-022-301FE	80 DA-A	04.07.2019	2,75; 4,75; 10,75	18,25	Plant C		0,0	54,49	67,29	83,65	80,76	75,67	5,002
	SRCZ19-024-301FE	66 DA-A	25.06.2019	2,5; 4,0; 16,0	22,5	Plant C		0,0	67,02	74,13	84,32	83,60	76,70	5,170
	SRPL19-136-336FE	63 DA-A	28.06.2019	7,75; 7,75; 4,25	19,75	Plant C		0,0	77,09	85,42	86,94	89,12	78,12	8,581
	SRPL19-137-336FE	55 DA-A	21.06.2019	6,25; 9,0; 4,25	19,5	Plant C		0,0	62,94	71,10	81,13	81,17	80,93	13,626
	SRPL19-139-336FE	53 DA-A	18.06.2019	8,5; 4,25; 0,75	13,5	Plant C		0,0	64,94	76,20	86,57	93,61	83,08	21,938
	A.T/2020/013/PO	87 DA-A	02.07.2020	2,3; 8,3; 8,3	18,9	STETOT P		0,0	79,60	75,80	80,00	75,00	73,30	0,077
	SRCZ20-052-301FE	65 DA-A	15.06.2020	4,5; 11,5; 8,0	24	Plant C		0,0	70,09	77,73	86,26	84,48	81,63	2,964
	CHR_F_PROTAZO_EFF20_CZ02	62 DA-A	08.07.2020	7,0; 4,0; 3,0	14	PLANT C		0,0	35,72	48,05	57,03	54,90	39,36	12,316
	Min.				13,5			0,00	35,72	48,05	57,03	54,90	39,36	
	Max.				24			0,00	79,60	85,42	86,94	93,61	83,08	
	Average				18,80			0,00	63,99	71,97	80,74	80,33	73,60	

Table 2. The efficacy of CHR/F/PROTAZO in control of FUSASP Fusarium spp. in winter wheat.

								No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV (class II, III, IV)	PESINC/PESINC index	% PESSEV (class II, III, IV) summary	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Proline	Makler 250 SE, Amistar	LSD (P=.05)
									Rate (l/ha)	0,80	0,90	1,00	1,00	1,00	
FUSASP (Fusarium spp.)	SRCZ19-023-301FE	66 DA-A	25.06.2019	6,25; 12,0; 6,75		25	Plant C		0,0	67,81	73,98	83,70	83,33	78,29	2,495
	SRCZ19-025-301FE	60 DA-A	21.06.2019	2,5; 7,5; 9,3		19,3	Plant C		0,0	65,74	76,12	84,66	81,77	74,54	3,580
	SRPL19-138-336FE	59 DA-A	21.06.2019	3,75; 8,50; 9,0		21,25	Plant C		0,00	37,28	59,38	83,22	86,99	68,660	16,512
	A.T/2020/013/PO	87 DA-A	02.07.2020	5,0; 5,3; 1,5		11,8	STETOT P		0,0	29,90	42,10	63,60	3,70	8,40	0,097
	AF/20/PO/1/Pr/01	113 DA-A	09.07.2020		40/0,4		STETOT C		0,0	68,80	73,40	73,40	77,00	37,80	9,010
	AF/20/PO/1/ZI/02	113 DA-A	09.07.2020		39/0,39		STETOT C		0,0	65,00	72,00	75,20	75,20	37,50	7,570
	SRDE20-101-301FE	75 DA-A	08.07.2020	6,25; 6,25; 4,0		16,5	PLANT C		0,0	71,43	75,04	85,98	77,33	70,95	9,950
	SRDE20-102-301FE	75 DA-A	08.07.2020	4,5; 6,5; 4,0		15	PLANT C		0,0	57,34	68,67	86,18	72,52	68,84	7,825
	SRDE20-103-301FE	83 DA-A	15.07.2020	5,0; 5,25; 4,75		15	PLANT C		0,0	58,44	71,06	86,79	77,90	78,01	5,854
	SRDE20-104-301FE	58 DA-A	20.06.2020	3,75; 6,75; 4,5		15	PLANT C		0,0	57,14	69,65	87,51	85,12	74,43	2,432
	CHR_F_PROTAZO_EFF20_CZ02	62 DA-A	08.07.2020	3,0; 3,0; 2,0		8	PLANT C		0,0	44,53	56,12	67,11	68,52	68,79	19,414
	Min.					8			0,00	29,90	42,10	63,60	3,70	8,40	
	Max.					25			0,00	71,43	76,12	87,51	86,99	78,29	
	Average					16,32			0,00	56,67	67,05	79,76	71,76	60,56	

Table 3. The efficacy of CHR/F/PROTAZO in control of ERYSGR Blumeria graminis in winter wheat (leaf – one application).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C.	Makler 250 SE, Amistar	LSD (P=,05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
ERYSGR (Blumeria graminis)	SRCZ19-022-301FE	34 DA-A	19.05.2019	11,9	L3		0,00	57,75	75,58	85,48	72,93	73,59	6,985
	SRCZ19-022-301FE	34 DA-A	19.05.2019	6,8	L2		0,00	55,25	68,70	86,18	74,23	70,25	8,503
	SRCZ19-024-301FE	20 DA-A	10.05.2019	9	L4		0,00	49,03	48,61	82,35	71,06	65,26	20,427
	SRCZ19-024-301FE	20 DA-A	10.05.2019	7,4	L3		0,00	53,63	69,05	87,60	84,54	82,26	23,53
	SRCZ19-024-301FE	34 DA-A	24.05.2019	11,4	L2		0,00	65,93	79,67	78,79	77,10	78,82	6,426
	SRCZ19-023-301FE	20 DA-A	10.05.2019	8,6	L4		0,00	43,64	66,85	80,86	76,72	72,27	11,071
	SRCZ19-023-301FE	20 DA-A	10.05.2019	5,9	L3		0,00	51,05	76,05	85,94	81,40	79,83	7,174
	SRCZ19-023-301FE	34 DA-A	24.05.2019	11,2	L2		0,00	59,92	71,79	86,06	81,52	75,43	6,376
	SRPL19-136-336FE	14 DA-A	10.05.2019	7,58	L3		0,00	82,78	83,06	90,85	90,64	79,98	6,08
	SRPL19-136-336FE	14 DA-A	10.05.2019	13,86	L4		0,00	76,89	79,76	84,17	85,78	75,08	4,164
	SRPL19-136-336FE	35 DA-A	31.05.2019	9,16	L2		0,00	77,24	82,57	84,96	85,82	73,10	5,538
	SRPL19-136-336FE	35 DA-A	31.05.2019	16,45	L3		0,00	70,94	75,96	76,72	76,91	66,90	5,295
	SRPL19-136-336FE	35 DA-A	31.05.2019	25,13	L4		0,00	68,47	72,10	73,39	74,50	61,72	3,948
	SRPL19-139-336FE	21 DA-A	17.05.2019	9,1	L5		0,00	53,89	53,06	65,90	74,24	67,50	23,597
	AF/20/PO/1/Pr/01	21 DA-A	08.04.2020	30,9	L5		0,0	66,70	70,70	80,80	78,80		11,760
	AF/20/PO/1/Pr/01	37 DA-A	24.04.2020	22,5	L4		0,0	51,40	61,10	65,30	69,40	38,90	8,720
	AF/20/PO/1/ZI/02	21 DA-A	08.04.2020	22,8	L5		0,0	52,10	61,60	75,30	74,00		11,660
	AF/20/PO/1/ZI/02	50 DA-A	07.05.2020	23,4	L4		0,0	57,30	65,30	69,30	72,00	45,30	9,580
	A.T/2019/028/PO	28 DA-A	14.06.2019	5,7	L2		0,0	59,60	77,20	89,50	77,60	70,20	0,310
	A.T/2020/013/PO	21 DA-A	27.04.2020	5,3	L3-L4		0,0	69,00	87,30	86,40	84,00	19,70	0,800
	A.T/2020/013/PO	21 DA-A	27.04.2020	16,8	L5-L6		0,0	51,40	62,10	63,20	62,40	9,40	2,690
	A.T/2020/013/PO	31 DA-A	07.05.2020	7	L2-L3		0,0	66,80	76,80	80,00	76,10	32,90	0,680
	A.T/2020/013/PO	31 DA-A	07.05.2020	22	L4-L5		0,0	53,60	57,80	60,60	58,20	19,40	2,090
	Min.			5,3			0,00	43,64	48,61	60,60	58,20	9,40	

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	Max.			30,9			0,00	82,78	87,30	90,85	90,64	82,26	
	Average			13,47			0,00	60,62	70,55	79,12	76,52	59,89	

Table 4. The efficacy of CHR/F/PROTAZO in control of ERYSGR *Blumeria graminis* in winter wheat (plant – one application).

Pest code			ERYSGR (<i>Blumeria graminis</i>)						
Report code			A.T/2019/028/PO	A.T/2019/028/PO	A.T/2020/013/PO	A.T/2020/013/PO	Min.	Max.	Average
DA-A/B			14 DA-A	28 DA-A	21 DA-A	31 DA-A			
date			31.05.2019	14.06.2019	27.04.2020	07.05.2020			
% PESSEV			7,4	7,2	22,1	29	7,2	29	16,43
part assessed			Plant P	Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	57,30	65,30	55,70	56,80	55,70	65,30	58,78
3	CHR/F/PROTAZO 375 S.C.	0,90	64,10	81,90	68,20	62,40	62,40	81,90	69,15
4	CHR/F/PROTAZO 375 S.C.	1,00	81,50	91,70	68,80	65,30	65,30	91,70	76,83
6	Delaro 325 S.C.	1,00	70,70	79,50	67,60	62,50	62,50	79,50	70,08
5	Makler 250 SE	1,00	72,00	70,80	11,90	22,70	11,90	72,00	44,35
LSD (P=.05)			0,300	0,370	3,350	2,610			

Table 5. The efficacy of CHR/F/PROTAZO in control of ERYSGR Blumeria graminis in winter wheat (leaf – two application).

Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	No. Name	1 Untreated Check	2 CHR/F/PROTAZ O 375 S.C.	3 CHR/F/PROTAZ O 375 S.C.	4 CHR/F/PROTAZ O 375 S.C.	6 Delaro 325 S.C., Proline	5 Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
ERYSGR (Blumeria graminis)	A.T/2020/009/PO	21 DA-A/ 0 DA-B	07.04.2020	5,4	L5-L6		0,0	79,30	87,10	86,60		10,60	0,660
	A.T/2020/009/PO	21 DA-B	28.04.2020	11,3	L5-L6		0,0	44,10	50,30	58,30	57,90	4,90	1,780
	A.T/2020/010/PO	21 DA-B	28.04.2020	6,2	L3-L4		0,0	80,50	87,80	89,00	86,60	39,80	0,480
	A.T/2020/010/PO	21 DA-B	28.04.2020	9,5	L5-L6		0,0	60,30	68,90	72,90	71,10	28,20	1,410
	A.T/2020/011/PO	21 DA-B	27.04.2020	8,6	L5-L6		0,0	72,30	74,30	77,30	72,90	19,80	1,830
	A.T/2020/012/PO	21 DA-B	27.04.2020	6,1	L3-L4		0,0	61,20	80,20	80,20	78,50	31,40	0,850
	A.T/2020/012/PO	21 DA-B	27.04.2020	12	L5-L6		0,0	50,40	62,10	63,80	63,50	21,30	1,840
	SRCZ19-027-301FE	20 DA-A/ 0 DA-B	06.06.2019	7,9	L3		0,0	45,28	69,63	81,76	72,12	74,67	15,069
	SRCZ19-027-301FE	20 DA-A/ 0 DA-B	06.06.2019	13,3	L4		0,0	61,60	74,66	85,78	78,41	80,19	6,495
	SRCZ19-027-301FE	21 DA-B	27.06.2019	7,3	L1		0,0	65,69	71,39	82,36	70,97	75,17	6,844
	SRCZ19-027-301FE	21 DA-B	27.06.2019	12,9	L2		0,0	63,97	75,55	82,72	77,96	72,47	6,050
	SRDE20-105-301FE	14 DA-A/ 0 DA-B	01.06.2020	5,1	L2		0,0	78,20	81,97	100,00	100,00	78,63	3,624
	SRDE20-105-301FE	14 DA-A/ 0 DA-B	01.06.2020	15,8	L3		0,0	53,33	71,12	85,48	85,92	58,94	3,234
	SRDE20-105-301FE	15 DA-B	16.06.2020	7,3	L2		0,0	52,97	70,74	86,76	86,75	67,74	4,033
	SRDE20-105-301FE	15 DA-B	16.06.2020	19,3	L3		0,0	54,66	70,26	85,62	86,69	50,77	3,030
	SRDE20-105-301FE	35 DA-B	06.07.2020	17,6	L2		0,0	29,83	66,11	86,81	87,80	34,71	4,280
	Min.			5,1			0,00	29,83	50,30	58,30	57,90	4,90	
	Max.			19,3			0,00	80,50	87,80	100,00	100,00	80,19	
	Average			10,35			0,00	59,60	72,63	81,59	78,47	46,83	

Table 6. The efficacy of CHR/F/PROTAZO in control of ERYSGR Blumeria graminis in winter wheat (plant – two application).

	Pest code		ERYSGR (Blumeria graminis)								
	Report code		A.T/2020/009/PO	A.T/2020/009/PO	A.T/2020/010/PO	A.T/2020/011/PO	A.T/2020/011/PO	A.T/2020/012/PO	Min.	Max.	Average
	DA-A/B		21 DA-A/ 0 DA-B	21 DA-B	21 DA-B	21 DA-A/ 0 DA-B	21 DA-B	21 DA-B			
	date		07.04.2020	28.04.2020	28.04.2020	06.04.2020	27.04.2020	27.04.2020			
	% PESSEV		6,5	15,8	15,7	6,3	11,2	18,1	6,3	18,1	12,27
	part assessed		Plant P	Plant P	Plant P	Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)									
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	80,50	47,20	68,20	84,00	76,30	54,00	47,20	84,00	68,37
3	CHR/F/PROTAZO 375 S.C.	0,90	87,70	55,90	76,40	92,00	78,10	68,10	55,90	92,00	76,37
4	CHR/F/PROTAZO 375 S.C.	1,00	87,70	62,90	79,20	92,40	80,80	69,30	62,90	92,40	78,72
6	Delaro 325 S.C.	1,00		61,60	77,20		76,60	68,60	61,60	77,20	71,00
5	Makler 250 SE	1,00	10,30	10,80	32,70	16,80	22,50	24,70	10,30	32,70	19,63
	LSD (P=.05)		0,910	2,240	1,850	1,640	2,250	2,470			

Table 7. The efficacy of CHR/F/PROTAZO in control of PYRNTN Pyrenophora tritici repentis in winter wheat (leaf).

Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	No.	1	2	3	4	6	5	LSD (P=.05)
						Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C.	Makler 250 SE, Amistar	
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
PYRNTN (Pyrenophora tritici repentis)	A.T/2019/028/PO	28 DA-A	14.06.2019	6,1	L2		0,0	75,40	81,10	95,90	87,70	79,50	0,400
	A.T/2019/029/PO	14 DA-A	05.06.2019	5,8	L3		0,0	66,30	75,00	84,80	65,20	71,70	0,740
	A.T/2019/029/PO	28 DA-A	19.06.2019	5,4	L2		0,0	68,80	79,70	87,40	79,00	73,40	0,400
	SRCZ19-024-301FE	20 DA-A	10.05.2019	12,3	L4		0,0	57,00	75,37	83,53	83,34	75,60	11,423
	SRCZ19-024-301FE	20 DA-A	10.05.2019	7,1	L3		0,0	66,67	76,84	88,44	90,63	82,44	7,612
	SRCZ19-023-301FE	20 DA-A	10.05.2019	10,1	L4		0,0	58,65	70,84	81,60	72,71	71,69	5,948
	SRCZ19-026-301FE	15 DA-A	11.06.2019	7,9	L3		0,0	34,17	56,35	75,47	73,72	76,83	9,957
	SRCZ19-026-301FE	29 DA-A	25.06.2019	5,4	L2		0,0	59,65	65,80	86,48	85,28	77,50	10,959
	SRCZ19-026-301FE	43 DA-A	09.07.2019	5	L1		0,0	48,67	72,97	83,62	78,84	75,22	14,211
	SRCZ19-029-301FE	13 DA-A	20.06.2019	26,3	L1		0,0	56,10	65,70	86,30	85,90	75,10	2,520
	SRCZ19-029-301FE	13 DA-A	20.06.2019	38,3	L2		0,0	64,10	75,20	86,00	86,70	77,80	2,730
	SRCZ19-029-301FE	25 DA-A	02.07.2019	37	L1		0,0	66,20	76,30	87,20	84,00	77,70	3,650
	SRCZ19-029-301FE	25 DA-A	02.07.2019	45	L2		0,0	51,60	74,40	86,10	85,60	75,60	1,260
	SRPL19-140-336FE	14 DA-A	03.06.2019	5,5	L1		0,0	100,00	100,00	100,00	100,00	100,00	
	SRPL19-140-336FE	14 DA-A	03.06.2019	6,3	L2		0,0	100,00	100,00	100,00	100,00	100,00	
	SRPL19-140-336FE	14 DA-A	03.06.2019	10,3	L4		0,0	80,24	82,66	87,63	86,65	91,14	1,440
	SRPL19-140-336FE	28 DA-A	17.06.2019	23,2	L1		0,0	71,97	79,62	87,81	86,69	90,29	2,282
	SRPL19-140-336FE	28 DA-A	17.06.2019	25,9	L2		0,0	73,58	80,77	89,61	88,16	91,50	2,632
	SRPL19-140-336FE	28 DA-A	17.06.2019	29,6	L3		0,0	61,82	65,44	79,45	76,50	80,84	2,559
	AF/20/PO/1/Pr/03	14 DA-A	03.06.2020	20	L3		0,0	65,00	76,60	87,80	83,40	87,20	12,180
	AF/20/PO/1/Pr/03	35 DA-A	24.06.2020	23,4	L2		0,0	53,30	68,80	86,70	86,70	86,10	21,850
	AF/20/PO/1/Pr/03	54 DA-A	13.07.2020	22,2	L1		0,0	56,30	73,50	89,30	85,90	85,40	11,330
	AF/20/PO/1/Br/04	14 DA-A	10.06.2020	21,3	L3		0,0	67,10	77,90	89,10	85,90	87,60	9,230
	AF/20/PO/1/Br/04	30 DA-A	26.06.2020	22,5	L2		0,0	63,30	77,50	87,80	88,10	86,90	7,950
	AF/20/PO/1/Br/04	44 DA-A	10.07.2020	25,3	L1		0,0	58,80	77,80	85,70	86,90	84,90	16,130
	Min.			5			0,00	34,17	56,35	75,47	65,20	71,69	
	Max.			45			0,00	100,00	100,00	100,00	100,00	100,00	
	Average			17,89			0,00	64,99	76,25	87,35	84,54	82,48	

Table 8. The efficacy of CHR/F/PROTAZO in control of PYRNTR *Pyrenophora tritici repentis* in winter wheat (plant).

Pest code			PYRNTR (<i>Pyrenophora tritici repentis</i>)					
Report code			A.T/2019/028/PO	A.T/2019/029/PO	A.T/2019/029/PO	Min.	Max.	Average
DA-A/B			28 DA-A	14 DA-A	28 DA-A			
date			14.06.2019	05.06.2019	19.06.2019			
% PESSEV			9,6	8	8,9	8	9,6	8,83
part assessed			Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)						
1	Untreated Check		0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	74,60	65,60	68,70	65,60	74,60	69,63
3	CHR/F/PROTAZO 375 S.C.	0,90	81,70	76,60	79,40	76,60	81,70	79,23
4	CHR/F/PROTAZO 375 S.C.	1,00	96,10	86,70	87,70	86,70	96,10	90,17
6	Delaro 325 S.C.	1,00	88,20	68,00	79,60	68,00	88,20	78,60
5	Makler 250 SE	1,00	80,90	73,40	74,30	73,40	80,90	76,20
LSD (P=.05)			0,660	0,930	0,630			

Table 9. The efficacy of CHR/F/PROTAZO in control of PUCCRE Puccinia recondita in winter wheat (leaf).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C.	Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
PUCCRT (Puccinia recondita)	SRCZ19-022-301FE	14 DA-A	29.04.2019	11,2	L4		0,0	46,44	80,07	84,72	69,20	64,77	13,550
	SRCZ19-022-301FE	14 DA-A	29.04.2019	5	L3		0,0	41,93	59,24	81,96	70,45	67,64	10,230
	SRCZ19-022-301FE	34 DA-A	19.05.2019	15,3	L3		0,0	36,99	72,24	89,72	75,27	79,84	6,887
	SRCZ19-022-301FE	34 DA-A	19.05.2019	6,1	L2		0,0	62,43	69,80	85,27	74,88	79,60	5,049
	SRCZ19-026-301FE	15 DA-A	11.06.2019	9,2	L2		0,0	50,32	69,89	82,99	84,25	81,46	8,816
	SRCZ19-026-301FE	15 DA-A	11.06.2019	19,2	L3		0,0	55,66	63,05	83,93	89,34	87,30	9,136
	SRCZ19-026-301FE	29 DA-A	25.06.2019	11	L1		0,0	48,66	71,30	84,22	85,41	81,64	9,551
	SRCZ19-026-301FE	29 DA-A	25.06.2019	11,8	L2		0,0	48,20	71,36	88,73	83,68	81,61	6,169
	SRCZ19-026-301FE	43 DA-A	09.07.2019	11,6	L1		0,0	46,47	72,56	89,56	85,86	83,47	9,638
	SRCZ19-029-301FE	25 DA-A	02.07.2019	6,1	L2		0,0	61,70	89,10	93,70	93,20	93,60	11,790
	SRCZ19-030-301FE	17 DA-A	04.07.2019	32,8	L1		0,0	87,00	92,10	90,20	89,50	94,40	3,350
	AF/20/PO/1/Br/04	14 DA-A	10.06.2020	19,7	L3		0,0	74,00	75,20	88,30	85,10	85,10	16,800
	AF/20/PO/1/Br/04	30 DA-A	26.06.2020	20,6	L2		0,0	56,10	73,00	86,70	82,40	85,20	13,930
	AF/20/PO/1/Br/04	44 DA-A	10.07.2020	20,6	L1		0,0	62,40	77,30	88,80	80,90	87,00	19,380
	A.T/2019/029/PO	28 DA-A	19.06.2019	5	L1		0,0	78,60	100,00	100,00	100,00	100,00	0,380
	Min.			5			0,00	36,99	59,24	81,96	69,20	64,77	
	Max.			32,8			0,00	87,00	100,00	100,00	100,00	100,00	
	Average			13,68			0,00	57,13	75,75	87,92	83,30	83,51	

Table 10. The efficacy of CHR/F/PROTAZO in control of PUCCRE Puccinia recondite in winter wheat (plant).

	Pest code		PUCCRT (Puccinia recondita)			
	Report code		A.T/2019/029/PO	Min.	Max.	Average
	DA-A/B		28 DA-A			
	date		19.06.2019			
	% PESSEV		5	5	5	5,00
	part assessed		plant P			
No.	Name	Rate (l/ha)				
1	Untreated Check		0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	78,60	78,60	78,60	78,60
3	CHR/F/PROTAZO 375 S.C.	0,90	100,00	100,00	100,00	100,00
4	CHR/F/PROTAZO 375 S.C.	1,00	100,00	100,00	100,00	100,00
6	Delaro 325 S.C.	1,00	100,00	100,00	100,00	100,00
5	Makler 250 SE	1,00	100,00	100,00	100,00	100,00
	LSD (P=.05)		0,380			

Table 11. The efficacy of CHR/F/PROTAZO in control of PUCCSI *Puccinia striiformis* in winter wheat (leaf).

Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Proline	Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
PUCCSI (<i>Puccinia striiformis</i>)	AF/20/PO/1/Pr/03	14 DA-A	03.06.2020	12,2	L3		0,0	63,10	81,50	92,80	91,80	88,70	22,580
	AF/20/PO/1/Pr/03	35 DA-A	24.06.2020	18,8	L2		0,0	55,00	75,00	85,30	86,30	81,70	13,670
	AF/20/PO/1/Pr/03	54 DA-A	13.07.2020	13,1	L1		0,0	68,10	78,10	91,40	91,40	88,60	10,290
	SRDE20-101-301FE	14 DA-A	08.05.2020	19,69	L2		0,0	63,01	72,90	85,23	69,65	71,56	5,815
	SRDE20-101-301FE	28 DA-A	22.05.2020	5,2	L1		0,0	87,12	90,30	100,00	100,00	100,00	12,870
	SRDE20-101-301FE	28 DA-A	22.05.2020	23,75	L2		0,0	64,65	73,35	85,47	76,03	74,52	6,280
	SRDE20-101-301FE	75 DA-A	08.07.2020	15,81	L1		0,0	53,52	63,64	84,17	76,65	64,04	4,348
	SRDE20-102-301FE	19 DA-A	13.05.2020	7,25	L2		0,0	64,10	78,21	85,97	84,27	76,05	2,660
	SRDE20-102-301FE	33 DA-A	27.05.2020	18,44	L2		0,0	55,88	71,67	85,41	81,07	69,50	3,762
	SRDE20-102-301FE	75 DA-A	08.07.2020	5,63	L1		0,0	83,34	92,56	100,00	100,00	100,00	10,202
	Min.			5,2			0,00	53,52	63,64	84,17	69,65	64,04	
	Max.			23,75			0,00	87,12	92,56	100,00	100,00	100,00	
	Average			13,99			0,00	65,78	77,72	89,58	85,72	81,47	

Table 12. The efficacy of CHR/F/PROTAZO in control of SEPTTR *Mycosphaerella graminicola* in winter wheat (leaf – one application).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C.	Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
SEPTTR (<i>Mycosphaerella graminicola</i>)	A.T/2019/028/PO	28 DA-A	14.06.2019	8,8	L2		0,0	64,10	72,10	79,80	71,80	53,30	0,680
	A.T/2019/029/PO	14 DA-A	05.06.2019	8,7	L3		0,0	75,70	84,40	91,30	87,90	85,50	0,590
	A.T/2019/029/PO	28 DA-A	19.06.2019	7,4	L2		0,0	72,60	80,00	82,30	75,80	74,20	0,500
	SRCZ19-025-301FE	21 DA-A	13.05.2019	24,4	L5		0,00	41,84	70,32	77,64	72,64	69,15	7,366
	SRCZ19-025-301FE	21 DA-A	13.05.2019	16,9	L4		0,00	54,44	59,74	81,10	72,06	75,75	11,081
	SRCZ19-025-301FE	21 DA-A	13.05.2019	12,5	L3		0,00	49,05	68,78	77,98	72,90	74,71	8,927
	SRCZ19-025-301FE	30 DA-A	22.05.2019	40,4	L4		0,00	58,30	72,87	83,97	78,25	77,02	5,942
	SRCZ19-025-301FE	30 DA-A	22.05.2019	20,3	L3		0,00	59,85	69,98	84,68	81,18	76,42	5,568
	SRCZ19-025-301FE	30 DA-A	22.05.2019	5,8	L2		0,00	61,36	71,08	84,44	78,55	77,97	5,527
	A.T/2020/013/PO	21 DA-A	27.04.2020	5,1	L3-L4		0,0	76,10	84,40	87,30	85,90	44,90	0,980
	A.T/2020/013/PO	21 DA-A	27.04.2020	15,1	L5-L6		0,0	47,50	52,70	56,60	55,10	17,80	1,420
	A.T/2020/013/PO	31 DA-A	07.05.2020	16,2	L4-L5		0,0	39,20	48,00	49,10	43,20	20,30	1,170
	SRCZ20-054-301FE	21 DA-A	02.07.2020	30,3	L1		0,0	60,86	68,74	86,86	86,90	67,33	2,800
	SRCZ20-054-301FE	21 DA-A	02.07.2020	55,6	L2		0,0	53,73	65,59	76,11	74,93	55,79	3,774
	SRCZ20-054-301FE	32 DA-A	13.07.2020	70,25	L1		0,0	52,00	68,56	85,35	83,94	53,07	2,956
	SRCZ20-055-301FE	21 DA-A	25.06.2020	30,8	L3		0,0	45,84	48,95	46,54	51,47	44,24	9,889
	SRCZ20-055-301FE	33 DA-A	07.07.2020	25,5	L1		0,0	80,61	80,58	88,72	88,67	78,38	2,692
	SRCZ20-055-301FE	33 DA-A	07.07.2020	36	L2		0,0	67,58	77,70	87,92	86,67	68,88	1,911
	SRDE20-104-301FE	32 DA-A	25.05.2020	5,6	L3		0,0	100,00	100,00	100,00	100,00	78,66	5,779
	SRDE20-104-301FE	58 DA-A	20.06.2020	7,4	L3		0,0	72,87	72,90	85,96	84,94	54,11	3,413
	Min.			5,1			0,00	39,20	48,00	46,54	43,20	17,80	
	Max.			70,25			0,00	100,00	100,00	100,00	100,00	85,50	
	Average			22,15			0,00	61,68	70,87	79,68	76,64	62,37	

Table 13. The efficacy of CHR/F/PROTAZO in control of SEPTTR *Mycosphaerella graminicola* in winter wheat (plant – one application).

Pest code			SEPTTR (<i>Mycosphaerella graminicola</i>)							
Report code			A.T/2019/028/PO	A.T/2019/029/PO	A.T/2019/029/PO	A.T/2020/013/PO	A.T/2020/013/PO	Min.	Max.	Average
DA-A/B			28 DA-A	14 DA-A	28 DA-A	21 DA-A	31 DA-A			
date			14.06.2019	05.06.2019	19.06.2019	27.04.2020	07.05.2020			
% PESSEV			12,3	14,3	12	20,2	20,7	12	20,7	15,90
part assessed			Plant P	Plant P	Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)								
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	72,60	74,70	71,10	54,80	46,00	46,00	74,70	63,84
3	CHR/F/PROTAZO 375 S.C.	0,90	78,00	85,30	81,10	60,70	56,90	56,90	85,30	72,40
4	CHR/F/PROTAZO 375 S.C.	1,00	85,30	93,30	84,90	64,40	57,50	57,50	93,30	77,08
6	Delaro 325 S.C.	1,00	77,80	89,10	75,20	62,90	52,20	52,20	89,10	71,44
5	Makler 250 SE	1,00	63,40	81,80	68,40	24,70	28,80	24,70	81,80	53,42
LSD (P=.05)			0,780	0,680	0,650	1,960	1,760			

Table 14. The efficacy of CHR/F/PROTAZO in control of SEPTTR *Mycosphaerella graminicola* in winter wheat (leaf – two application).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Proline	Makler 250 SE, Amistar	LSD (P=,05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
SEPTTR (<i>Mycosphaerella graminicola</i>)	A.T/2020/009/PO	21 DA-A/ 0 DA-B	07.04.2020	10,9	L5-L6		0,0	44,30	49,80	57,80		39,40	1,830
	A.T/2020/009/PO	21 DA-B	28.04.2020	5,6	L3-L4		0,0	59,40	67,40	79,00	82,10	33,90	0,890
	A.T/2020/009/PO	21 DA-B	28.04.2020	11,2	L5-L6		0,0	33,70	42,00	50,20	53,50	17,40	1,120
	A.T/2020/010/PO	21 DA-A/ 0 DA-B	07.04.2020	6,8	L5-L6		0,0	49,30	58,50	65,10		26,80	0,340
	A.T/2020/010/PO	21 DA-B	28.04.2020	8,6	L5-L6		0,0	56,40	61,00	63,40	58,70	18,60	1,090
	A.T/2020/012/PO	21 DA-A/ 0 DA-B	06.04.2020	6,6	L5-L6		0,0	71,40	80,20	83,20		80,50	0,450
	A.T/2020/012/PO	21 DA-B	27.04.2020	5	L3-L4		0,0	61,80	78,90	80,40	76,40	53,80	0,980
	A.T/2020/012/PO	21 DA-B	27.04.2020	12	L5-L6		0,0	42,80	50,10	51,80	43,90	23,70	0,840
	SRCZ19-027-301FE	20 DA-A/ 0 DA-B	06.06.2019	10,5	L2		0,0	42,33	61,77	82,21	79,63	72,61	13,374
	SRCZ19-027-301FE	20 DA-A/ 0 DA-B	06.06.2019	10,8	L3		0,0	56,57	71,17	81,78	75,99	72,48	11,031
	SRCZ19-027-301FE	21 DA-B	27.06.2019	7,4	L1		0,0	53,13	64,53	80,38	74,12	75,99	13,967
	SRCZ19-027-301FE	21 DA-B	27.06.2019	10,8	L2		0,0	73,59	77,09	85,64	80,91	83,73	3,955
	SRPL19-144-336FE	13 DA-B	14.06.2019	10,4	L2		0,0	44,27	62,13	73,55	57,81	56,68	30,519
	SRPL19-144-336FE	13 DA-B	14.06.2019	48,7	L3		0,0	57,45	67,90	69,74	64,43	60,68	24,570
	SRPL19-144-336FE	34 DA-B	05.07.2019	13,6	L1		0,0	45,74	58,20	76,99	67,42	62,33	23,504
	SRPL19-145-336FE	20 DA-A/ 0 DA-B	24.05.2019	5,1	L2		0,0	87,17	93,82	100,00	100,00	79,01	5,423
	SRPL19-145-336FE	20 DA-A/ 0 DA-B	24.05.2019	11	L3		0,0	79,67	87,91	91,82	91,63	77,16	5,019
	SRPL19-145-336FE	14 DA-B	07.06.2019	5,8	L1		0,0	80,93	87,35	89,66	89,44	78,52	3,073
	SRPL19-145-336FE	14 DA-B	07.06.2019	12,9	L2		0,0	78,95	85,68	87,64	87,94	75,74	3,300
	SRPL19-145-336FE	14 DA-B	07.06.2019	20,5	L3		0,0	77,32	83,84	86,46	85,66	74,56	2,627
	SRPL19-145-336FE	28 DA-B	21.06.2019	21,3	L1		0,0	74,25	80,63	85,63	85,16	71,03	5,539
	SRPL19-146-336FE	14 DA-B	14.06.2019	10,3	L3		0,0	75,23	86,25	92,30	91,08	90,49	3,297

	SRPL19-146-336FE	35 DA-B	05.07.2019	8,5	L1		0,0	79,47	85,13	91,26	90,24	90,14	2,643
	SRDE20-105-301FE	14 DA-A/ 0 DA-B	01.06.2020	5,4	L3		0,0	75,26	75,00	91,86	80,82	82,48	19,015
	SRDE20-105-301FE	14 DA-A/ 0 DA-B	01.06.2020	16,1	L4		0,0	62,78	73,32	84,93	80,96	52,68	2,381
	SRDE20-105-301FE	15 DA-B	16.06.2020	6,9	L3		0,0	64,67	68,14	85,64	79,78	60,98	3,443
	Min.			5			0,00	33,70	42,00	50,20	43,90	17,40	
	Max.			48,7			0,00	87,17	93,82	100,00	100,00	90,49	
	Average			11,64			0,00	62,61	71,45	79,55	77,29	61,98	

Table 15. The efficacy of CHR/F/PROTAZO in control of SEPTTR *Mycosphaerella graminicola* in winter wheat (plant – two application).

Pest code			SEPTTR (<i>Mycosphaerella graminicola</i>)								
Report code			A.T/2020/009/PO	A.T/2020/009/PO	A.T/2020/010/PO	A.T/2020/010/PO	A.T/2020/012/PO	A.T/2020/012/PO	Min.	Max.	Average
DA-A/B			21 DA-A/ 0 DA-B	21 DA-B	21 DA-A/ 0 DA-B	21 DA-B	21 DA-A/ 0 DA-B	21 DA-B			
date			07.04.2020	28.04.2020	07.04.2020	28.04.2020	06.04.2020	27.04.2020			
% PESSEV			14,4	16,8	8,4	13,6	7,1	17	7,1	17	12,88
part assessed			Plant P	Plant P	Plant P	Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)									
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	49,70	42,30	52,70	62,10	72,20	48,40	42,30	72,20	54,57
3	CHR/F/PROTAZO 375 S.C.	0,90	54,90	50,40	61,70	67,30	81,00	58,50	50,40	81,00	62,30
4	CHR/F/PROTAZO 375 S.C.	1,00	62,90	59,80	68,00	69,50	83,80	60,10	59,80	83,80	67,35
6	Delaro 325 S.C.	1,00		63,30		66,50		53,40	53,40	66,50	61,07
5	Makler 250 SE	1,00	41,60	22,90	29,40	31,80	81,30	32,50	22,90	81,30	39,92
LSD (P=.05)			1,670	1,830	0,420	1,290	0,460	1,470			

Table 16. The efficacy of CHR/F/PROTAZO in control of FUSACU *Fusarium culmorum* in winter wheat.

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Proline	Makler 250 SE, Amistar, Azbany, Torero	LSD (P=.05)
							Rate (l/ha)	0,80	0,90	1,00	1,00	1,00	
FUSACU (Fusarium culmorum)	A.T/2019/030/PO	21 DA-A	25.06.2019	6,4	ear P		0,0	86,00	92,60	100,00	100,00	76,70	0,670
	A.T/2019/031/PO	24 DA-A	01.07.2019	6,4	ear P		0,0	90,60	100,00	100,00	100,00	85,90	0,970
	SRCZ19-030-301FE	17 DA-A	04.07.2019	12,6	ear P		0,0	55,40	70,50	86,40	83,70	68,40	5,940
	SRCZ19-030-301FE	22 DA-A	04.07.2019	22	ear P		0,0	64,30	75,50	86,00	84,70	65,20	2,490
	SRPL19-141-336FE	28 DA-A	09.07.2019	6,5	ear P		0,0	76,93	80,79	87,81	82,25	85,08	9,524
	AF/20/PO/1/Br/05	27 DA-A	06.07.2020	59,7	ear P		0,0	66,00	74,90	85,90	67,00	62,30	8,410
	SRDE20-106-301FE	27 DA-A	16.07.2020	6,9	ear P		0,0	69,30	75,38	86,12	85,23	72,19	3,563
	CHR_F_PROTAZO_EFF5_DE14	36 DA-A	04.07.2020	23,6	ear P		0,0	56,85	43,10	67,36	65,94	35,79	25,727
	CHR_F_PROTAZO_EFF5_DE15	28 DA-A	25.06.2020	20,3	ear P		0,0	46,69	59,62	58,41	53,55	56,06	22,875
	SRCZ20-054-301FE	32 DA-A	13.07.2020	5,21	ear P		0,0	86,10	82,86	94,12	83,83	84,51	8,159
	SRCZ20-055-301FE	21 DA-A	25.06.2020	30,3	ear P		0,0	72,09	76,77	89,27	87,98	76,04	2,163
	SRCZ20-055-301FE	33 DA-A	07.07.2020	40,3	ear P		0,0	61,71	76,17	87,53	86,53	78,66	3,443
	SRDE20-105-301FE	45 DA-B	16.07.2020	5,8	Head P		0,0	36,75	44,25	88,00	73,58	75,67	39,718
	Min.			5,21			0,00	36,75	43,10	58,41	53,55	35,79	
	Max.			59,7			0,00	90,60	100,00	100,00	100,00	85,90	
	Average			18,92			0,00	66,82	73,26	85,92	81,10	70,96	

Table 17. The efficacy of CHR/F/PROTAZO in control of LEPTNO Septoria nodorum/Phaeosphaeria nodorum in winter wheat.

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Proline	Makler 250 SE, Amistar, Azbany	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
LEPTNO (Septoria nodorum/Phaeosphaeria nodorum)	A.T/2019/030/PO	21 DA-A	25.06.2019	6,9	ear P		0,0	68,30	77,80	89,60	88,70	83,50	
	A.T/2019/031/PO	14 DA-A	21.06.2019	6,3	ear P		0,0	74,30	85,20	90,50	92,90	81,90	0,440
	A.T/2019/031/PO	24 DA-A	01.07.2019	7,5	ear P		0,0	76,80	82,40	90,00	90,00	74,80	0,530
	SRPL19-144-336FE	44 DA-B	15.07.2019	5	ear P		0,0	86,32	91,22	94,23	91,94	86,80	12,035
	SRPL19-145-336FE	48 DA-B	11.07.2019	5,3	HEAD P		0,0	82,98	87,06	91,04	90,90	79,41	6,207
	SRCZ19-030-301FE	17 DA-A	04.07.2019	15,8	ear P		0,0	35,30	68,00	87,40	85,70	84,70	2,030
	SRCZ20-054-301FE	21 DA-A	02.07.2020	9,01	ear P		0,0	54,40	75,84	86,72	86,44	85,18	2,662
	SRCZ20-054-301FE	32 DA-A	13.07.2020	11,4	ear P		0,0	54,63	76,85	86,56	86,26	76,16	2,248
	SRCZ20-055-301FE	21 DA-A	25.06.2020	5,1	ear P		0,0	61,10	76,14	86,20	87,34	75,00	3,694
	SRCZ20-055-301FE	33 DA-A	07.07.2020	6,2	ear P		0,0	58,05	77,23	86,92	86,13	74,83	3,414
	SRDE20-106-301FE	27 DA-A	16.07.2020	5,9	ear P		0,0	70,30	81,79	87,41	85,51	82,46	1,603
	Min.			5			0,00	35,30	68,00	86,20	85,51	74,80	
	Max.			15,8			0,00	86,32	91,22	94,23	92,90	86,80	
	Average			7,67			0,00	65,68	79,96	88,78	88,35	80,43	

Table 18. The efficacy of CHR/F/PROTAZO in control of RHIZCE Rhizoctonia cerealis in winter wheat (two application).

Pest code			RHIZCE (Rhizoctonia cerealis)					
Report code			A.T/2020/010/PO	A.T/2020/011/PO	A.T/2020/012/PO	Min.	Max.	Average
DA-A/B			94 DA-B	78 DA-B	84 DA-B			
date			10.07.2020	23.06.2020	29.06.2020			
% PESSEV (class II, III, IV)			9,0; 7,3; 5,5	2,3; 2,8; 4,0	4,8; 2,8; 1,5			
% PESSEV (class II, III, IV) summary			21,8	9,1	9,1	9,1	21,8	13,33
part assessed			STETOT P	STETOT P	STETOT P			
No.	Name	Rate (l/ha)						
1	Untreated Check		0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	72,00	38,70	73,70	38,70	73,70	61,47
3	CHR/F/PROTAZO 375 S.C.	0,90	73,50	60,40	81,60	60,40	81,60	71,83
4	CHR/F/PROTAZO 375 S.C.	1,00	82,00	83,00	80,30	80,30	83,00	81,77
6	Delaro 325 S.C.	1,00	76,30	72,60	71,10	71,10	76,30	73,33
5	Makler 250 SE	1,00	37,00	92,50	78,90	37,00	92,50	69,47
LSD (P=.05)			0,117	0,078	0,043			

Table 19. The efficacy of CHR/F/PROTAZO in control of FUSASP Fusarium spp. in winter triticale.

	Pest code		FUSASP (Fusarium spp.)								
	Report code		SRPL19-143-336FE	A.T/2020/014/PŽO	A.T/2020/015/PŽO	AF/20/PszO/1/Pr/01	AF/20/PszO/1/Br/02	SRDE20-107-301FE	Min.	Max.	Average
	DA-A/B		56 DA-A	97 DA-A	115 DA-A	113 DA-A	93 DA-A	61 DA-A			
	date		21.06.2019	22.06.2020	10.07.2020	09.07.2020	09.07.2020	22.06.2020			
	% PESSEV (class II, III, IV)		3,75; 8,5; 9,0	4,3; 3,3; 1,3	17,8; 3,5; 1,3			5,5; 6,25; 4,75			
	PESINC/PESINC index			0,19	0,33	32,5/0,31	28,8; 0,29				
	% PESSEV (class II, III, IV) summary		21,25	8,9	22,6			16,5	8,9	22,6	17,31
	part assessed		STETOT P	STETOT P	STETOT P	STETOT C	STETOT C	Plant C			
No.	Name	Rate (l/ha)									
1	Untreated Check		0,00	0,0	0,0	0,0	0,0	0,0	0	0	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	58,95	42,10	69,90	62,70	58,40	69,25	42,1	69,9	60,22
3	CHR/F/PROTAZO 375 S.C.	0,90	72,22	42,10	66,90	61,20	68,20	72,76	42,1	72,76	63,90
4	CHR/F/PROTAZO 375 S.C.	1,00	84,26	55,30	72,90	68,40	66,40	84,27	55,3	84,27	71,92
6	Delaro 325 S.C.	1,00	86,99	14,50	57,90	71,50	68,10	82,04	14,5	86,99	63,51
5	Makler 250 SE	1,00	72,13	(-10,5%)	50,40	47,00	39,80	73,39	(-10,5%)	73,39	56,54
	LSD (P=.05)		10,472	0,101	0,045	16,030	9,960	2,413			

Table 20. The efficacy of CHR/F/PROTAZO in control of ERYSGR Blumeria graminis in winter triticale (leaf – one application).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Proline	Makler 250 SE, Amistar	LSD (P=,05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
ERYSGR (Blumeria graminis)	A.T/2020/014/PZO	41 DA-A	27.04.2020	6,9	L5-L6		0,0	86,10	92,70	94,90	94,20	26,30	0,680
	A.T/2020/015/PZO	42 DA-A	28.04.2020	6,7	L5-L6		0,0	62,50	72,50	80,70	76,20	30,50	1,100
	A.T/2020/018/PZO	35 DA-A	14.05.2020	5,8	L4		0,0	57,30	69,40	72,40	75,40	27,20	0,710
	AF/20/PszO/1/Pr/01	21 DA-A	08.04.2020	39,7	L5		0,0	71,70	77,20	84,30	81,90		8,910
	AF/20/PszO/1/Pr/01	37 DA-A	24.04.2020	34,1	L4		0,0	65,10	72,50	76,10	78,00	58,70	15,160
	AF/20/PszO/1/Br/02	21 DA-A	28.04.2020	31,3	L4		0,0	63,00	81,00	80,00	81,00	54,00	11,250
	CHR-F-PROTAZO-EFF01-DE016	37 DA-A	15.05.2020	15,1	L4		0,0	96,94	96,04	98,50	98,92	64,31	3,923
	CHR-F-PROTAZO-EFF01-DE016	76 DA-A	23.06.2020	25,7	L3		0,0	41,18	46,66	51,84	45,70	8,60	4,936
	SRCZ20-057-301FE	16 DA-A	03.06.2020	5,03	L3		0,0	91,05	95,00	96,53	90,47	77,11	12,925
	SRCZ20-057-301FE	16 DA-A	03.06.2020	6,05	L4		0,0	80,97	90,90	91,35	92,24	80,83	2,376
	SRCZ20-057-301FE	35 DA-A	22.06.2020	5,1	L3		0,0	88,73	97,57	100,00	100,00	65,18	1,374
	SRCZ20-058-301FE	20 DA-A	09.06.2020	5,2	L3		0,0	68,09	73,33	81,14	90,21	66,94	22,133
	Min.			5,03			0,00	41,18	46,66	51,84	45,70	8,60	
	Max.			39,7			0,00	96,94	97,57	100,00	100,00	80,83	
	Average			15,56			0,00	72,72	80,40	83,98	83,69	50,88	

Table 21. The efficacy of CHR/F/PROTAZO in control of ERYSGR Blumeria graminis in winter triticale (plant – one application).

Pest code			ERYSGR (Blumeria graminis)					
Report code			A.T/2020/014/PŽO	A.T/2020/015/PŽO	A.T/2020/018/PŽO	Min.	Max.	Average
DA-A/B			41 DA-A	42 DA-A	35 DA-A			
date			27.04.2020	28.04.2020	14.05.2020			
% PESSEV			6,9	9,1	10	6,9	10	8,67
part assessed			Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)						
1	Untreated Check		0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	86,10	65,10	63,10	63,10	86,10	71,43
3	CHR/F/PROTAZO 375 S.C.	0,90	92,70	76,80	74,10	74,10	92,70	81,20
4	CHR/F/PROTAZO 375 S.C.	1,00	94,90	83,70	77,00	77,00	94,90	85,20
6	Delaro 325 S.C.	1,00	94,20	79,40	80,00	79,40	94,20	84,53
5	Makler 250 SE	1,00	26,30	34,10	35,20	26,30	35,20	31,87
LSD (P=.05)			0,680	1,170	0,780			

Table 22. The efficacy of CHR/F/PROTAZO in control of ERYSGR *Blumeria graminis* in winter triticale (leaf – two application).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Proline	Makler 250 SE, Amistar, Torero	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
ERYSGR (<i>Blumeria graminis</i>)	CHR_F_PROTAZO_CZ11	20 DA-A	12.06.2019	8,4	L4		0,0	95,33	99,17	100,00	100,00	54,40	10,649
	CHR_F_PROTAZO_CZ11	20 DA-A	12.06.2019	5,9	L3		0,0	100,00	100,00	100,00	100,00	83,67	2,941
	CHR_F_PROTAZO_CZ11	29 DA-B	11.07.2019	14,7	L2		0,0	89,97	98,39	98,83	100,00	60,55	6,741
	A.T/2019/033/PŽO	21 DA-A/ 0 DA-B	22.05.2019	7,1	L3		0,0	51,90	58,30	66,80	55,50	68,20	0,480
	A.T/2020/016/PŽO	16 DA-A	23.04.2020	7,3	L5-L6		0,0	83,50	82,80	97,30	96,20	62,50	1,630
	A.T/2020/016/PŽO	21 DA-B	26.05.2020	7,3	L4		0,0	84,50	83,80	98,10	97,60	54,50	1,200
	A.T/2020/016/PŽO	42 DA-B	16.06.2020	6,7	L3		0,0	68,00	76,30	85,00	84,60	32,30	1,020
	A.T/2020/017/PŽO	15 DA-A	23.04.2020	5	L5-L6		0,0	78,80	87,90	100,00	92,90	56,60	0,830
	CHR_F_PROTAZO20_EFF2_DE18	20 DA-A/ 0 DA-B	26.05.2020	31,4	L5		0,0	52,65	62,29	63,00	88,80	14,90	23,463
	CHR_F_PROTAZO20_EFF2_DE18	14 DA-B	09.06.2020	18,3	L4		0,0	62,61	78,94	66,90	82,68	25,11	23,442
	CHR_F_PROTAZO20_EFF2_DE18	28 DA-B	23.06.2020	31	L4		0,0	71,62	79,03	80,35	97,03	43,80	9,575
	SRPL2020_404_336_FE	20 DA-A	30.05.2020	9,2	L3		0,0	48,89	70,01	86,61	73,12	76,64	12,694
	SRPL2020_404_336_FE	20 DA-A	30.05.2020	14,1	L4		0,0	62,74	75,51	86,87	78,37	80,12	6,359
	SRPL2020_404_336_FE	28 DA-B	27.06.2020	8,2	L1		0,0	67,88	72,58	85,89	71,06	75,08	4,996
	SRPL2020_404_336_FE	28 DA-B	27.06.2020	14,2	L2		0,0	64,55	75,46	87,89	79,02	73,99	5,257
	Min.			5			0,00	48,89	58,30	63,00	55,50	14,90	
	Max.			31,4			0,00	100,00	100,00	100,00	100,00	83,67	
	Average			12,59			0,00	72,20	80,03	86,90	86,46	57,49	

Table 23. The efficacy of CHR/F/PROTAZO in control of ERYSGR Blumeria graminis in winter triticale (plant – two application).

Pest code			ERYSGR (Blumeria graminis)								
Report code			A.T/2019/033/PŽO	A.T/2019/033/PŽO	A.T/2020/016/PŽO	A.T/2020/016/PŽO	A.T/2020/016/PŽO	A.T/2020/017/PŽO	Min.	Max.	Average
DA-A/B			21 DA-A/ 0 DA-B	21 DA-B	16 DA-A	21 DA-B	42 DA-B	15 DA-A			
date			22.05.2019	12.06.2019	23.04.2020	26.05.2020	16.06.2020	23.04.2020			
% PESSEV			12,6	5,2	8	10	8,9	5	5	12,6	8,28
part assessed			Plant C	Plant C	Plant P	Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)									
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	64,50	90,90	83,30	85,80	72,50	78,80	64,50	90,90	79,30
3	CHR/F/PROTAZO 375 S.C.	0,90	71,30	96,20	83,20	87,00	79,40	87,90	71,30	96,20	84,17
4	CHR/F/PROTAZO 375 S.C.	1,00	77,90	97,60	97,50	98,60	88,00	100,00	77,90	100,00	93,27
6	Delaro 325 S.C.	1,00	69,10	97,60	96,60	98,30	87,30	92,90	69,10	98,30	90,30
5	Makler 250 SE	1,00	75,50	98,10	60,40	62,30	34,30	56,60	34,30	98,10	64,53
LSD (P=.05)			0,650	0,140	1,640	1,620	0,900	0,830			

Table 24. The efficacy of CHR/F/PROTAZO in control of PYRNTR *Pyrenophora tritici repentis* in winter triticales (leaf).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C.	Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
PYRNTR (<i>Pyrenophora tritici repentis</i>)	CZOR-SYT19-TTLSS-030RYM	14 DA-A	08.06.2019	18,2	L2		0,0	96,29	97,29	97,77	98,27	98,23	1,185
	CZOR-SYT19-TTLSS-030RYM	14 DA-A	08.06.2019	13,1	L3		0,0	95,10	94,82	97,42	98,45	98,29	0,841
	CZOR-SYT19-TTLSS-030RYM	28 DA-A	22.06.2019	30	L2		0,0	98,33	98,83	99,21	99,46	99,42	0,538
	CZOR-SYT19-TTLSS-030RYM	28 DA-A	22.06.2019	21,9	L3		0,0	97,59	97,66	99,14	99,77	99,83	0,558
	A.T/2019/032/PŽO	42 DA-A	18.06.2019	6,3	L2		0,0	50,00	60,00	77,60	54,80	56,40	0,470
	A.T/2020/019/PŽO	39 DA-A	23.06.2020	5,2	L2		0,0	72,90	78,30	86,60	71,00	68,80	0,370
	A.T/2020/021/PŽO	20 DA-A	17.06.2020	6,1	L2		0,0	62,00	86,80	92,10	97,10	90,90	1,910
	AF/20/PszO/1/Pr/03	14 DA-A	01.06.2020	22,2	L3		0,0	62,00	79,70	90,40	88,20	88,50	9,190
	AF/20/PszO/1/Pr/03	37 DA-A	24.06.2020	23,8	L2		0,0	55,30	71,30	88,70	84,50	84,50	24,520
	AF/20/PszO/1/Pr/03	57 DA-A	14.07.2020	20	L1		0,0	65,00	77,80	88,40	83,10	85,30	17,490
	AF/20/PszO/1/Br/04	14 DA-A	30.05.2020	24,1	L3		0,0	71,40	79,00	89,60	87,50	90,10	21,870
	AF/20/PszO/1/Br/04	39 DA-A	24.06.2020	21,6	L2		0,0	64,60	81,20	94,20	92,20	89,30	7,140
	AF/20/PszO/1/Br/04	55 DA-A	24.06.2020	21,9	L1		0,0	60,00	84,30	94,30	91,40	92,00	13,660
	Min.			5,2			0,00	50,00	60,00	77,60	54,80	56,40	
	Max.			30			0,00	98,33	98,83	99,21	99,77	99,83	
	Average			18,03			0,00	73,12	83,62	91,96	88,13	87,81	

Table 25. The efficacy of CHR/F/PROTAZO in control of PYRNTR *Pyrenophora tritici repentis* in winter triticales (plant).

Pest code		PYRNTR (<i>Pyrenophora tritici repentis</i>)					
Report code		A.T/2019/032/PŽO	A.T/2020/019/PŽO	A.T/2020/021/PŽO	Min.	Max.	Average
DA-A/B		42 DA-A	39 DA-A	20 DA-A			
date		18.06.2019	23.06.2020	17.06.2020			
% PESSEV		10,1	5,7	6,7	5,7	10,1	7,50
part assessed		Plant P	Plant P	Plant P			
Name	Rate (l/ha)						
Untreated Check		0,0	0,0	0,0	0,00	0,00	0,00
CHR/F/PROTAZO 375 S.C.	0,80	54,70	73,60	63,20	54,70	73,60	63,83
CHR/F/PROTAZO 375 S.C.	0,90	70,00	80,10	88,00	70,00	88,00	79,37
CHR/F/PROTAZO 375 S.C.	1,00	81,50	87,70	92,50	81,50	92,50	87,23
Delaro 325 S.C.	1,00	60,80	72,70	97,40	60,80	97,40	76,97
Makler 250 SE, Amistar	1,00	60,20	69,20	89,10	60,20	89,10	72,83
LSD (P=.05)		0,640	0,390	1,760			

Table 26. The efficacy of CHR/F/PROTAZO in control of PUCCRE Puccinia recondite in winter triticale (leaf).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Proline, Imput Classic	Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
PUCCRT (Puccinia recondita)	SRPL19-142-336FE	14 DA-A	20.05.2019	5,5	L2		0,00	74,74	85,45	95,07	85,97	85,93	7,138
	SRPL19-142-336FE	14 DA-A	20.05.2019	8,7	L3		0,00	77,80	85,33	90,04	84,43	86,13	5,398
	SRPL19-142-336FE	35 DA-A	10.06.2019	11,6	L1		0,00	80,26	85,55	91,28	86,30	86,42	5,98
	SRPL19-142-336FE	35 DA-A	10.06.2019	20,9	L2		0,00	76,57	81,96	87,32	84,19	84,73	5,217
	SRPL19-142-336FE	35 DA-A	10.06.2019	34,1	L3		0,00	68,00	75,15	84,77	82,57	82,38	5,057
	SRPL19-143-336FE	35 DA-A	31.05.2019	5,06	L1		0,0	93,18	100,00	100,00	100,00	100,00	2,751
	SRPL19-143-336FE	35 DA-A	31.05.2019	10,8	L2		0,0	83,25	86,22	87,98	90,17	84,13	5,410
	SRPL19-143-336FE	35 DA-A	31.05.2019	17,1	L3		0,0	81,90	86,39	86,61	85,32	81,31	4,783
	SRPL19-143-336FE	35 DA-A	31.05.2019	26,25	L4		0,0	70,94	78,62	79,78	81,52	77,02	8,275
	CZOR-SYT19-TTLSS-030RYM	14 DA-A	08.06.2019	15	L2		0,0	94,83	95,67	96,42	96,50	96,83	1,586
	CZOR-SYT19-TTLSS-030RYM	14 DA-A	08.06.2019	25	L3		0,0	92,85	96,05	97,30	97,20	97,45	1,398
	CZOR-SYT19-TTLSS-030RYM	28 DA-A	22.06.2019	30	L2		0,0	98,50	98,79	99,63	99,75	99,79	0,464
	CZOR-SYT19-TTLSS-030RYM	28 DA-A	22.06.2019	40	L3		0,0	98,69	98,94	99,50	99,84	99,84	0,311
	A.T/2019/029/PO	28 DA-A	19.06.2019	5	L1		0,0	78,60	100,00	100,00	100,00	100,00	0,380
	AF/20/PszO/1/Br/04	14 DA-A	30.05.2020	20	L3		0,0	60,30	77,20	93,80	87,20	88,80	13,950
	AF/20/PszO/1/Br/04	39 DA-A	24.06.2020	20	L2		0,0	62,50	84,40	95,00	92,50	92,80	12,050
	AF/20/PszO/1/Br/04	55 DA-A	24.06.2020	15,3	L1		0,0	70,60	73,50	95,10	93,50	91,00	19,950
	CHR_F_PROTAZO20_EFF4_DE21	58 DA-A	02.07.2020	6,9	L1		0,00	72,62	100,00	100,00	100,00	100,00	10,083
	CHR_F_PROTAZO20_EFF4_DE21	58 DA-A	02.07.2020	11,6	L2		0,00	83,79	100,00	100,00	100,00	100,00	11,084
	SRDE20-108-301FE	38 DA-A	23.06.2020	5,3	L1		0,00	63,07	70,09	75,96	73,47	71,41	1,374
	CHR_F_PROTAZO20_EFF2_DE19	51 DA-B	02.07.2020	7,1	L1		0,0	91,03	100,00	100,00	94,65	100,00	10,775
	CHR_F_PROTAZO20_EFF2_DE19	51 DA-B	02.07.2020	13,8	L2		0,0	95,17	100,00	100,00	97,66	100,00	5,153
	Min.			5			0	60,3	70,09	75,96	73,47	71,41	

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	Max.			40			0	98,69	100	100	100	100	
	Average			16,14			0,00	80,42	89,06	93,43	91,49	91,18	

Table 27. The efficacy of CHR/F/PROTAZO in control of PUCCRE Puccinia recondite in winter triticale (plant).

	Pest code		PUCCRT (Puccinia recondita)			
	Report code		A.T/2019/029/PO	Min.	Max.	Average
	DA-A/B		28 DA-A			
	date		19.06.2019			
	% PESSEV		5	5	5	5,00
	part assessed		plant P			
No.	Name	Rate (l/ha)				
1	Untreated Check		0,0	0	0	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	78,60	78,6	78,6	78,60
3	CHR/F/PROTAZO 375 S.C.	0,90	100,00	100	100	100,00
4	CHR/F/PROTAZO 375 S.C.	1,00	100,00	100	100	100,00
6	Delaro 325 S.C.	1,00	100,00	100	100	100,00
5	Makler 250 SE	1,00	100,00	100	100	100,00
	LSD (P=.05)		0,380			

Table 28. The efficacy of CHR/F/PROTAZO in control of PUCCSI *Puccinia striiformis* in winter triticale (leaf).

Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Imput Classic	Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
PUCCSI (<i>Puccinia striiformis</i>)	AF/20/PszO/1/Pr/03	14 DA-A	01.06.2020	25	L3		0,0	51,30	67,00	85,30	85,80	85,30	13,430
	AF/20/PszO/1/Pr/03	37 DA-A	24.06.2020	14,1	L2		0,0	59,60	80,40	90,70	84,00	88,90	11,140
	AF/20/PszO/1/Pr/03	57 DA-A	14.07.2020	19,1	L1		0,0	53,40	78,70	89,50	83,00	84,30	15,490
	SRDE20-108-301FE	22 DA-A	07.06.2020	5,4	L1		0,0	71,30	83,90	88,50	74,60	86,00	3,380
	SRDE20-108-301FE	22 DA-A	07.06.2020	15,3	L2		0,0	55,30	73,70	87,00	66,80	86,70	3,580
	SRDE20-108-301FE	22 DA-A	07.06.2020	60,3	L3		0,0	54,60	69,50	79,90	51,80	80,10	4,250
	SRDE20-108-301FE	38 DA-A	23.06.2020	69,8	L1		0,0	70,87	71,50	75,55	77,50	75,58	12,141
	SRDE20-108-301FE	38 DA-A	23.06.2020	76,5	L2		0,0	61,31	66,89	76,87	72,10	77,26	3,197
	Min.			5,4			0,00	51,30	66,89	75,55	51,80	75,58	
	Max.			76,5			0,00	71,30	83,90	90,70	85,80	88,90	
	Average			35,69			0,00	59,71	73,95	84,17	74,45	83,02	

Table 29. The efficacy of CHR/F/PROTAZO in control of PUCCSI *Puccinia striiformis* in winter triticale (ear).

Pest code			PUCCSI (<i>Puccinia striiformis</i>)					
Report code			SRDE20-108-301FE	SRDE20-108-301FE	SRDE20-108-301FE	Min.	Max.	Average
DA-A/B			22 DA-A	38 DA-A	46 DA-A			
date			07.06.2020	23.06.2020	01.07.2020			
% PESSEV			6,9	46,6	58,8	6,9	58,8	37,43
part assessed			ear P	ear P	ear P			
No.	Name	Rate (l/ha)						
1	Untreated Check		0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	95,20	97,39	74,43	74,43	97,39	89,01
3	CHR/F/PROTAZO 375 S.C.	0,90	96,30	98,08	78,73	78,73	98,08	91,04
4	CHR/F/PROTAZO 375 S.C.	1,00	100,00	99,23	86,73	86,73	100,00	95,32
6	Imput Classic	1,25	95,50	98,43	78,64	78,64	98,43	90,86
5	Amistar	1,00	97,10	97,57	88,84	88,84	97,57	94,50
LSD (P=.05)			2,220	1,184	1,922			

Table 30. The efficacy of CHR/F/PROTAZO in control of SEPTTR Mycosphaerella graminicola in winter triticale (leaf – one application).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Proline	Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
SEPTTR (Mycosphaerella graminicola)	A.T/2019/032/PZO	21 DA-A	28.05.2019	5,6	L2		0,0	67,30	75,80	84,30	77,10	72,60	0,470
	A.T/2019/032/PZO	21 DA-A	28.05.2019	20,2	L3		0,0	54,40	62,00	77,40	63,30	67,50	1,560
	A.T/2019/032/PZO	42 DA-A	18.06.2019	5,6	L1		0,0	59,40	75,00	85,30	68,80	60,30	0,660
	A.T/2019/032/PZO	42 DA-A	18.06.2019	18,1	L2		0,0	58,80	71,70	80,30	67,40	65,70	1,680
	SRPL19-142-336FE	14 DA-A	20.05.2019	5,3	L3		0,0	69,13	77,57	88,28	83,10	80,87	25,638
	SRPL19-142-336FE	35 DA-A	10.06.2019	10,6	L2		0,0	50,61	71,59	84,86	81,08	67,42	26,987
	SRPL19-142-336FE	35 DA-A	10.06.2019	48,7	L3		0,0	62,64	75,23	81,13	81,22	74,99	17,149
	A.T/2020/018/PZO	18 DA-A	27.04.2020	7,4	L5-L6		0,0	70,40	79,60	82,70	76,20	85,70	1,480
	A.T/2020/018/PZO	35 DA-A	14.05.2020	6,9	L4		0,0	50,00	70,30	81,90	81,90	60,90	1,120
	A.T/2020/020/PZO	19 DA-A	27.05.2020	5,2	L4		0,0	41,70	61,50	78,50	75,60	56,10	0,660
	A.T/2020/020/PZO	32 DA-A	09.06.2020	6,3	L3		0,0	66,70	74,90	85,30	69,30	51,70	0,890
	A.T/2020/020/PZO	32 DA-A	09.06.2020	6,3	L4		0,0	70,90	75,00	86,80	78,60	76,40	0,630
	CHR_F_PROTAZO20_EFF5_DE22	21 DA-A	15.06.2020	34,9	L3		0,0	28,47	30,89	38,24	38,93	12,32	5,307
	SRCZ20-058-301FE	20 DA-A	09.06.2020	6,6	L1		0,0	61,81	77,09	87,65	86,72	60,92	2,536
	SRCZ20-058-301FE	20 DA-A	09.06.2020	19,7	L2		0,0	71,45	76,78	86,72	83,86	77,17	8,439
	SRCZ20-058-301FE	20 DA-A	09.06.2020	29,7	L3		0,0	57,97	67,26	82,68	81,78	50,50	3,082
	SRCZ20-056-301FE	21 DA-A	03.06.2020	5,55	L3		0,0	73,84	78,97	85,55	85,12	68,16	8,088
	SRCZ20-056-301FE	21 DA-A	03.06.2020	17,73	L4		0,0	81,58	86,88	87,11	83,47	53,10	3,595
	SRCZ20-056-301FE	35 DA-A	17.06.2020	5,35	L1		0,0	89,65	92,91	93,87	93,87	74,16	1,222
	SRCZ20-056-301FE	35 DA-A	17.06.2020	34,5	L2		0,0	84,59	86,27	90,89	90,84	54,62	13,656
	SRCZ20-056-301FE	35 DA-A	17.06.2020	58,6	L3		0,0	83,68	87,03	88,38	88,02	19,47	8,722
	SRCZ20-056-301FE	55 DA-A	07.07.2020	13,6	L1		0,0	83,70	90,55	90,74	89,56	50,57	9,225
	SRCZ20-056-301FE	55 DA-A	07.07.2020	40,5	L2		0,0	84,44	91,71	91,56	91,14	57,78	6,052
	SRCZ20-057-301FE	16 DA-A	03.06.2020	5,7	L2		0,0	69,75	78,53	87,71	84,20	63,87	3,419

	SRCZ20-057-301FE	16 DA-A	03.06.2020	6,4	L3		0,0	65,25	75,41	85,94	87,09	57,44	3,214
	SRCZ20-057-301FE	16 DA-A	03.06.2020	31,33	L4		0,0	60,39	71,86	85,77	86,95	63,16	1,863
	SRCZ20-057-301FE	35 DA-A	22.06.2020	8,55	L1		0,0	87,24	86,54	92,45	87,44	90,68	9,294
	SRCZ20-057-301FE	35 DA-A	22.06.2020	20,8	L2		0,0	80,75	86,48	92,14	92,88	60,38	1,803
	SRCZ20-057-301FE	35 DA-A	22.06.2020	54,13	L3		0,0	92,89	92,82	95,40	94,86	57,19	9,228
	SRCZ20-057-301FE	35 DA-A	22.06.2020	95,3	L4		0,0	54,26	61,79	75,66	77,04	49,36	2,910
	SRCZ20-057-301FE	56 DA-A	13.07.2020	20,15	L1		0,0	86,75	87,83	92,90	90,06	59,61	8,523
	SRCZ20-057-301FE	56 DA-A	13.07.2020	45,75	L2		0,0	89,91	90,47	92,74	93,03	66,03	3,561
	Min.			5,2			0,00	28,47	30,89	38,24	38,93	12,32	
	Max.			95,3			0,00	92,89	92,91	95,40	94,86	90,68	
	Average			21,91			0,00	69,07	77,13	85,03	81,58	61,46	

Table 31. The efficacy of CHR/F/PROTAZO in control of SEPTTR *Mycosphaerella graminicola* in winter triticale (plant – one application).

Pest code			SEPTTR (<i>Mycosphaerella graminicola</i>)								
Report code			A.T/2019/032/PŽO	A.T/2019/032/PŽO	A.T/2020/018/PŽO	A.T/2020/018/PŽO	A.T/2020/020/PŽO	A.T/2020/020/PŽO	Min.	Max.	Average
DA-A/B			21 DA-A	42 DA-A	18 DA-A	35 DA-A	19 DA-A	32 DA-A			
date			28.05.2019	18.06.2019	27.04.2020	14.05.2020	27.05.2020	09.06.2020			
% PESSEV			26,7	23,7	7,7	10,5	5,2	16,6	5,2	26,7	15,07
part assessed			Plant P	Plant P	Plant P	Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)									
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	57,80	58,90	71,20	52,60	54,50	71,30	52,60	71,30	61,05
3	CHR/F/PROTAZO 375 S.C.	0,90	65,70	72,50	80,40	72,10	72,70	77,70	65,70	80,40	73,52
4	CHR/F/PROTAZO 375 S.C.	1,00	79,60	81,50	83,30	85,70	83,80	88,10	79,60	88,10	83,67
6	Delaro 325 S.C.	1,00	66,90	67,80	77,10	84,80	82,80	76,50	66,90	84,80	75,98
5	Makler 250 SE	1,00	69,10	64,40	86,30	68,10	63,90	67,70	63,90	86,30	69,92
LSD (P=.05)			1,870	1,660	1,480	1,310	0,850	1,050			

Table 32. The efficacy of CHR/F/PROTAZO in control of SEPTTR *Mycosphaerella graminicola* in winter triticale (leaf – two application).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZ O 375 S.C.	CHR/F/PROTAZ O 375 S.C.	CHR/F/PROTAZ O 375 S.C.	Delaro 325 S.C., Proline	Makler 250 SE, Amistar, Torero	LSD (P=,05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
SEPTTR (<i>Mycosphaerella graminicola</i>)	CZOR-SYT19-TTLSS-051NEC	20 DA-A	10.06.2019	5,6	L4		0,0	99,54	100,00	100,00	100,00	97,14	1,126
	CZOR-SYT19-TTLSS-051NEC	22 DA-B	02.07.2019	8,9	L1		0,0	97,19	97,18	98,16	97,75	86,78	0,812
	CZOR-SYT19-TTLSS-051NEC	22 DA-B	02.07.2019	11,5	L2		0,0	93,25	94,79	94,71	94,97	85,11	2,121
	CZOR-SYT19-TTLSS-051NEC	36 DA-B	16.07.2019	10,8	L1		0,0	61,92	81,78	79,25	77,63	45,36	33,085
	CHR_F_PROTAZO_CZ11	29 DA-B	11.07.2019	10	L2		0,0	90,00	94,38	96,88	96,88	85,00	4,571
	CHR_F_PROTAZO_CZ11	29 DA-B	11.07.2019	5	L1		0,0	85,00	93,75	97,50	98,75	82,50	6,926
	CHR_F_PROTAZO_CZ11	37 DA-B	19.07.2019	6,3	L1		0,0	86,00	92,00	96,00	97,00	85,00	2,578
	A.T/2019/033/PZO	21 DA-B	12.06.2019	8,8	L2		0,0	64,10	72,10	79,50	72,40	77,20	0,620
	A.T/2020/016/PZO	21 DA-B	26.05.2020	5	L4		0,0	62,80	73,90	84,90	80,90	63,80	0,380
	A.T/2020/017/PZO	15 DA-A	23.04.2020	6,4	L5-L6		0,0	38,40	74,90	82,40	77,30	74,10	1,300
	A.T/2020/017/PZO	28 DA-A/ 0 DA-B	06.05.2020	5,6	L4		0,0	86,60	91,10	96,40	99,10	97,30	1,120
	CHR_F_PROTAZO20_EFF2_DE18	14 DA-B	09.06.2020	13,8	L4		0,0	50,09	55,01	59,78	66,41	29,05	13,594
	CHR_F_PROTAZO20_EFF2_DE18	28 DA-B	23.06.2020	12,4	L4		0,0	64,82	63,80	68,19	83,24	32,00	17,121
	Min.			5			0,00	38,40	55,01	59,78	66,41	29,05	
	Max.			13,8			0,00	99,54	100,00	100,00	100,00	97,30	
	Average			8,47			0,00	75,36	83,44	87,21	87,87	72,33	

Table 33. The efficacy of CHR/F/PROTAZO in control of SEPTTR *Mycosphaerella graminicola* in winter triticale (plant – two application).

Pest code			SEPTTR (<i>Mycosphaerella graminicola</i>)								
Report code			A.T/2019/033/PŽO	A.T/2019/033/PŽO	A.T/2020/016/PŽO	A.T/2020/017/PŽO	A.T/2020/017/PŽO	A.T/2020/017/PŽO	Min.	Max.	Average
DA-A/B			21 DA-A/ 0 DA-B	21 DA-B	21 DA-B	15 DA-A	28 DA-A/ 0 DA-B	21 DA-B			
date			22.05.2019	12.06.2019	26.05.2020	23.04.2020	06.05.2020	27.05.2020			
% PESSEV			5,6	12,3	7,2	7,1	5,6	5	5	12,3	7,13
part assessed			Plant C	Plant C	Plant P	Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)									
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	82,10	72,20	65,90	44,30	86,60	72,40	44,30	86,60	70,58
3	CHR/F/PROTAZO 375 S.C.	0,90	85,70	78,00	75,60	77,30	91,10	76,10	75,60	91,10	80,63
4	CHR/F/PROTAZO 375 S.C.	1,00	92,00	84,60	86,40	84,00	96,40	88,70	84,00	96,40	88,68
6	Delaro 325 S.C.	1,00	92,00	78,60	85,00	79,40	99,10	82,20	78,60	99,10	86,05
5	Makler 250 SE	1,00	90,20	82,20	66,20	76,60	97,30	72,10	66,20	97,30	80,77
LSD (P=.05)			0,610	0,740	0,440	1,360	1,120	1,170			

Table 34. The efficacy of CHR/F/PROTAZO in control of RHYNSE *Rhynchosprum secalis* in winter triticale (leaf).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C.	Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
RHYNSE (<i>Rhynchosprum secalis</i>)	SRPL19-142-336FE	14 DA-A	20.05.2019	5,6	L3		0,0	78,71	85,04	97,33	93,69	86,05	8,302
	SRPL19-142-336FE	35 DA-A	10.06.2019	6,8	L1		0,0	85,09	86,56	90,62	87,09	89,92	5,869
	SRPL19-142-336FE	35 DA-A	10.06.2019	5,1	L2		0,0	86,57	89,83	90,57	92,59	93,32	4,611
	SRPL19-142-336FE	35 DA-A	10.06.2019	6,2	L3		0,0	84,69	87,71	93,13	89,96	86,61	9,790
	SRPL19-143-336FE	14 DA-A	10.05.2019	11,5	L3		0,0	85,38	88,28	90,83	92,27	83,98	5,046
	SRPL19-143-336FE	14 DA-A	10.05.2019	21,9	L4		0,0	82,68	84,37	87,60	89,69	78,12	6,043
	SRPL19-143-336FE	35 DA-A	31.05.2019	21,8	L3		0,0	81,82	85,51	88,32	89,62	75,51	5,372
	SRPL19-143-336FE	35 DA-A	31.05.2019	34,99	L4		0,0	76,40	81,53	82,39	85,45	72,76	6,698
	A.T/2020/018/PŽO	35 DA-A	14.05.2020	6,9	L4		0,0	65,20	76,10	81,90	82,60	65,90	1,740
	A.T/2020/019/PŽO	21 DA-A	05.06.2020	5,4	L4		0,0	47,40	64,80	83,50	81,60	60,70	0,760
	A.T/2020/019/PŽO	39 DA-A	23.06.2020	10,3	L2		0,0	55,70	69,80	78,70	61,70	32,60	1,090
	A.T/2020/020/PŽO	32 DA-A	09.06.2020	8	L4		0,0	70,90	72,90	80,90	65,00	22,50	1,750
	SRCZ20-058-301FE	20 DA-A	09.06.2020	5,6	L2		0,0	70,78	71,87	86,46	87,50	66,27	2,493
	SRCZ20-058-301FE	20 DA-A	09.06.2020	6,2	L3		0,0	63,54	77,67	86,88	86,88	63,62	3,642
	Min.			5,1			0,00	47,40	64,80	78,70	61,70	22,50	
	Max.			34,99			0,00	86,57	89,83	97,33	93,69	93,32	
	Average			11,16			0,00	73,92	80,14	87,08	84,69	69,85	

Table 35. The efficacy of CHR/F/PROTAZO in control of RHYNSE *Rhynchosprum secalis* in winter triticale (plant).

Pest code			RHYNSE (<i>Rhynchosprum secalis</i>)						
Report code			A.T/2020/018/PŽO	A.T/2020/019/PŽO	A.T/2020/019/PŽO	A.T/2020/020/PŽO	Min.	Max.	Average
DA-A/B			35 DA-A	21 DA-A	39 DA-A	32 DA-A			
date			14.05.2020	05.06.2020	23.06.2020	09.06.2020			
% PESSEV			9,2	6,6	10,5	11,3	6,6	11,3	9,40
part assessed			Plant P	Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	66,10	56,50	56,30	73,00	56,30	73,00	62,98
3	CHR/F/PROTAZO 375 S.C.	0,90	76,70	71,00	70,20	75,50	70,20	76,70	73,35
4	CHR/F/PROTAZO 375 S.C.	1,00	82,40	86,30	79,00	85,60	79,00	86,30	83,33
6	Delaro 325 S.C.	1,00	82,10	84,20	61,70	69,80	61,70	84,20	74,45
5	Makler 250 SE	1,00	65,00	62,50	32,70	24,40	24,40	65,00	46,15
LSD (P=.05)			1,990	0,870	1,110	2,150			

Table 36. The efficacy of CHR/F/PROTAZO in control of FUSACU *Fusarium culmorum* in winter triticale.

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Input Classic	Makler 250 SE, Amistar, Azabny	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
FUSACU (<i>Fusarium culmorum</i>)	CZOR-SYT19-TTLSS-031RYM	21 DA-A	11.07.2019	14,85	ear P		0,0	95,26	95,88	96,26	96,40	96,42	0,349
	A.T/2019/034/PŽO	27 DA-A	01.07.2019	8,6	ear P		0,0	70,80	82,20	86,90	81,30	84,30	0,470
	SRDE20-109-301FE	28 DA-A	10.06.2020	5,8	ear P		0,0	83,90	92,00	94,70	91,30	87,20	5,530
	A.T/2020/021/PŽO	29 DA-A	26.06.2020	7,9	ear P		0,0	71,30	84,50	89,90	82,60	81,70	0,650
	SRPL20-405-336FE	28 DA-A	08.07.2020	14,9	ear P		0,0	76,27	82,70	88,75	83,70	87,04	2,113
	SRPL20-406-336FE	28 DA-A	07.07.2020	9,3	ear P		0,0	72,00	78,00	86,50	82,20	83,70	2,270
	Min.			5,8			0,00	70,80	78,00	86,50	81,30	81,70	
	Max.			14,9			0,00	95,26	95,88	96,26	96,40	96,42	
	Average			10,23			0,00	78,26	85,88	90,50	86,25	86,73	

Table 37. The efficacy of CHR/F/PROTAZO in control of LEPTNO Septoria nodorum/Phaeosphaeria nodorum in winter triticale.

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Delaro 325 S.C., Imput Classic	Makler 250 SE, Amistar, Azbany	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
LEPTNO (Septoria nodorum/Phaeosphaeria nodorum)	CZOR-SYT19-TTLSS-031RYM	21 DA-A	11.07.2019	36,8	ear P		0,0	96,92	97,46	98,23	98,04	99,37	0,356
	A.T/2019/034/PZO	27 DA-A	01.07.2019	5,2	ear P		0,0	75,40	75,70	80,80	76,90	77,60	0,260
	A.T/2020/021/PZO	29 DA-A	26.06.2020	37,8	ear P		0,0	56,30	66,70	82,30	69,10	43,30	5,380
	AF/20/PszO/1/ZI/05	39 DA-A	06.07.2020	23,1	ear P		0,0	73,00	84,90	93,80	95,70	75,40	12,020
	AF/20/PszO/1/Br/06	38 DA-A	06.07.2020	23,4	ear P		0,0	72,00	80,80	89,30	89,30	77,10	11,310
	SRPL20-406-336FE	28 DA-A	07.07.2020	12,9	ear P		0,0	68,90	71,80	83,50	82,10	83,90	2,550
	SRDE20-109-301FE	14 DA-A	10.06.2020	5,4	ear P		0,0	81,70	84,10	87,30	86,20	82,00	1,810
	SRDE20-109-301FE	28 DA-A	24.06.2020	10,5	ear P		0,0	72,60	78,70	86,50	86,50	72,20	1,410
	Min.			5,2			0,00	56,30	66,70	80,80	69,10	43,30	
	Max.			37,8			0,00	96,92	97,46	98,23	98,04	99,37	
	Average			19,39			0,00	74,60	80,02	87,72	85,48	76,36	

Table 38. The efficacy of CHR/F/PROTAZO in control of RHIZCE *Rhizoctonia cerealis* in winter tritcale.

Pest code			RHIZCE (<i>Rhizoctonia cerealis</i>)				
Report code			A.T/2020/014/PŽO	A.T/2020/015/PŽO	Min.	Max.	Average
DA-A/B			97 DA-A	115 DA-A			
date			22.06.2020	10.07.2020			
% PESSEV (class I-IV)			3,8; 3,3; 2,5	6,8; 4,3; 0,8			
% PESSEV(class I-IV) summary			9,6	11,9	9,6	11,9	10,75
PESINC/PESINC index			0,24	0,23			
part assessed			STETOT P	STETOT P			
No.	Name	Rate (l/ha)					
1	Untreated Check		0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	71,30	84,40	71,30	84,40	77,85
3	CHR/F/PROTAZO 375 S.C.	0,90	71,30	84,40	71,30	84,40	77,85
4	CHR/F/PROTAZO 375 S.C.	1,00	83,00	91,10	83,00	91,10	87,05
6	Delaro 325 S.C.	1,00	31,90	86,70	31,90	86,70	59,30
5	Makler 250 SE	1,00	68,10	68,90	68,10	68,90	68,50
LSD (P=.05)			0,098	0,047			

Table 39. The efficacy of CHR/F/PROTAZO in control of PUCCHD Puccinia hordei in spring barley.

						No.	1	2	3	4	5	6	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Elatus Era 225 EC	Makler 250 SE, Amistar	LSD (P=.05)
						Rate (l/ha)		0,60	0,80	1,00	1,00	1,00	
PUCCHD (Puccinia hordei)	SRPL19-307-336FE	21 DA-A/0 DA-B	21.05.2019	5,5	L2		0,00	80,59	85,45	95,07	93,40	85,97	5,849
	SRPL19-307-336FE	21 DA-A/0 DA-B	21.05.2019	8,7	L3		0,00	77,80	85,33	90,04	89,88	84,29	4,88
	SRPL19-307-336FE	21 DA-B	11.06.2019	11,6	L1		0,00	80,26	85,55	91,28	90,92	86,30	5,47
	SRPL19-307-336FE	21 DA-B	11.06.2019	20,9	L2		0,00	76,57	81,96	87,32	86,76	82,70	5,545
	SRPL19-307-336FE	21 DA-B	11.06.2019	34,1	L3		0,00	68,00	75,15	81,11	84,59	78,17	4,862
	SRPL19-308-336FE	29 DA-B	20.06.2019	5,1	L1		0,00	81,90	89,84	92,11	89,88	90,63	4,088
	CHR_F_PROTAZO_CZ015	19 DA-B	10.07.2019	5,6	L1		0,00	66,38	94,88	95,29	62,69	95,12	5,356
	CHR_F_PROTAZO_CZ015	19 DA-B	10.07.2019	6,5	L2		0,00	66,95	90,35	90,59	63,43	91,13	2,93
	CZOR-SYT19-HORVS-043RYM	14 DA-A	27.06.2019	20	L1		0,00	94,50	96,40	96,80	97,05	97,05	0,93
	CZOR-SYT19-HORVS-043RYM	14 DA-A	27.06.2019	30	L2		0,00	92,07	95,50	96,03	96,03	95,97	1,352
	CZOR-SYT19-HORVS-043RYM	7 DA-B	11.07.2019	30	L1		0,00	97,80	98,10	98,87	99,07	99,07	0,412
	CZOR-SYT19-HORVS-043RYM	7 DA-B	11.07.2019	37,85	L2		0,00	95,67	97,28	98,05	98,23	98,28	0,476
	SRCZ20-064-301FE	14 DA-A	04.06.2020	5,9	L4		0,00	30,70	80,90	78,40	87,30	96,80	25,59
	SRCZ20-064-301FE	14 DA-A	04.06.2020	9,7	L5		0,00	57,50	78,60	82,00	85,00	74,70	9,16
	SRCZ20-064-301FE	29 DA-B	03.07.2020	5,3	L2		0,00	71,70	80,90	90,20	97,50	96,40	8,37
	CZOR-CPP20-HORVS-075SYT	28 DA-B	02.07.2020	12,2	L1		0,00	100,00	100,00	100,00	100,00	100,00	
	CZOR-CPP20-HORVS-075SYT	28 DA-B	02.07.2020	15,6	L2		0,00	82,80	86,80	98,90	100,00	100,00	8,47
	CZOR-CPP20-HORVS-075SYT	28 DA-B	02.07.2020	20	L3		0,00	81,60	77,90	98,00	100,00	99,20	7,54
	SRDE20-151-301FE	29 DA-B	17.07.2020	6	L1		0,00	81,37	88,15	89,40	91,22	83,97	4,132
	AF/20/JJ/1/Pr/04	21 DA-A	16.06.2020	19,1	L3		0,00	79,00	87,50	96,40	99,30	96,70	10,6
	AF/20/JJ/1/Pr/04	14 DA-B	30.06.2020	25	L2		0,00	81,00	89,00	97,30	100,00	97,50	7,15
	AF/20/JJ/1/Pr/04	21 DA-B	07.07.2020	28,8	L1		0,00	73,90	80,20	86,10	91,30	78,30	9,49
	AF/20/JJ/1/Br/05	21 DA-A	19.06.2020	20,6	L3		0,00	77,00	87,30	98,20	100,00	99,40	14,02
	AF/20/JJ/1/Br/05	14 DA-B	03.07.2020	22,2	L2		0,00	82,00	93,20	98,30	100,00	98,30	9,19

	AF/20/JJ/1/Br/05	21 DA-B	10.07.2020	23,8	L1		0,00	75,00	83,20	91,60	96,30	83,20	8,84
	A.T/2020/090/JJ	29 DA-B	07.07.2020	9	L2		0,0	99,80	100,00	100,00	88,80	100,00	1,560
	A.T/2020/090/JJ	29 DA-B	07.07.2020	5,5	L3		0,0	100,00	100,00	100,00	97,60	100,00	1,450
	A.T/2020/091/JJ	36 DA-B	09.07.2020	5,6	L2		0,0	100,00	100,00	100,00	77,80	97,00	0,840
	Min.			5,1			0,00	30,70	75,15	78,40	62,69	74,70	
	Max.			37,85			0,00	100,00	100,00	100,00	100,00	100,00	
	Average			16,08			0,00	80,42	88,91	93,48	91,57	92,36	

Table 40. The efficacy of CHR/F/PROTAZO in control of PYRNTE *Pyrenophora teres* in spring barley (leaf).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Elatus Era 225 EC, Delaro, Proline	Amistar 250 S.C., Azbany, Makler	LSD (P=.05)
						Rate (l/ha)		0,60	0,80	1,00	1; 0,75	1,00	
PYRNTE (<i>Pyrenophora teres</i>)	SRPL19-301-336FE	21 DA-A	03.06.2019	6,63	L2		0,00	86,19	92,26	93,11	97,21	86,56	5,648
	SRPL19-301-336FE	21 DA-A	27.05.2019	19,03	L3		0,00	80,64	88,08	89,00	92,79	82,57	6,351
	SRPL19-301-336FE	21 DA-A	03.06.2019	35,69	L4		0,00	75,86	83,21	86,15	91,02	77,18	8,500
	SRPL19-301-336FE	14 DA-B	17.06.2019	39,03	L1		0,00	70,67	87,41	94,50	96,23	87,81	3,857
	SRPL19-301-336FE	14 DA-B	17.06.2019	67,19	L2		0,00	63,69	82,32	90,74	93,52	82,32	7,300
	SRPL19-301-336FE	14 DA-B	17.06.2019	90,63	L3		0,00	47,01	67,64	73,42	90,13	62,74	6,049
	SRPL19-301-336FE	28 DA-B	01.07.2019	59	L1		0,00	60,29	78,30	85,31	91,61	72,45	6,547
	SRPL19-301-336FE	28 DA-B	01.07.2019	80,31	L2		0,00	37,43	65,28	75,96	85,46	51,68	7,494
	SRPL19-302-336FE	21 DA-A/0 DA-B	27.05.2019	6,2	L3		0,00	89,08	93,66	96,36	96,16	91,70	4,601
	SRPL19-302-336FE	21 DA-A/0 DA-B	27.05.2019	9,8	L4		0,00	84,94	86,74	89,79	89,81	84,70	0,914
	SRPL19-302-336FE	14 DA-B	10.06.2019	17,3	L1		0,00	74,39	80,22	89,91	89,42	78,73	5,102
	SRPL19-302-336FE	14 DA-B	10.06.2019	24,9	L2		0,00	69,10	81,70	89,80	90,16	81,98	6,075
	SRPL19-302-336FE	14 DA-B	10.06.2019	41,9	L3		0,00	63,22	73,70	80,48	86,77	72,66	5,848
	SRPL19-304-336FE	14 DA-B	17.06.2019	5,1	L1		0,00	70,74	70,86	77,69	87,01	79,14	15,657
	SRPL19-306-336FE	14 DA-B	05.06.2019	8,6	L3		0,00	71,92	84,93	87,74	86,25	83,35	1,951
	CHR_F_PROTAZO_CZ015	19 DA-B	10.07.2019	6,6	L1		0,00	84,52	95,84	96,03	96,42	76,68	4,101
	CHR_F_PROTAZO_CZ015	19 DA-B	10.07.2019	8,3	L2		0,00	73,98	91,37	91,67	91,08	71,86	3,788
	CZOR-SYT19-HORVS-041RY	14 DA-A	27.06.2019	8,36	L3		0,00	86,53	88,13	92,08	95,56	94,55	1,073
	CZOR-SYT19-HORVS-041RY	28 DA-A	11.07.2019	13,6	L2		0,00	95,78	96,67	97,50	98,37	97,94	0,759
	CZOR-SYT19-HORVS-041RY	28 DA-A	11.07.2019	23,8	L3		0,00	97,26	97,72	99,12	99,16	99,28	0,497
	CHR_F_PROTAZO_CZ017	20 DA-B	11.07.2019	6	L2		0,00	79,38	89,25	89,32	89,69	77,04	4,779
	SRCZ20-066-301FE	13 DA-A	09.06.2020	5,8	L1		0,00	64,38	73,59	81,55	82,26	80,87	3,641
	SRCZ20-066-301FE	13 DA-A	09.06.2020	12,2	L2		0,00	43,79	65,93	78,19	80,87	79,35	12,033
	SRCZ20-066-301FE	13 DA-A	09.06.2020	18,4	L3		0,00	26,02	56,43	78,71	78,98	81,15	8,415

SRCZ20-066-301FE	13 DA-A	09.06.2020	30,9	L4		0,00	33,68	61,81	77,64	78,01	74,86	5,744
SRCZ20-066-301FE	29 DA-B	08.07.2020	59,7	L1		0,00	49,96	62,57	77,61	74,20	76,92	6,048
SRCZ20-066-301FE	29 DA-B	08.07.2020	55,6	L2		0,00	49,98	65,05	77,40	77,78	72,20	5,417
SRCZ20-066-301FE	29 DA-B	08.07.2020	57,8	L3		0,00	56,78	67,58	77,78	77,91	76,19	3,990
SRCZ20-064-301FE	14 DA-A	04.06.2020	9,1	L4		0,00	58,60	70,10	78,50	79,30	82,80	7,110
SRCZ20-064-301FE	14 DA-A	04.06.2020	17,8	L5		0,00	65,60	73,90	79,00	78,90	81,80	2,950
SRCZ20-064-301FE	29 DA-B	03.07.2020	58,8	L1		0,00	63,70	74,00	78,70	78,80	78,10	6,930
SRCZ20-064-301FE	29 DA-B	03.07.2020	59,1	L2		0,00	64,60	76,20	79,40	80,40	78,80	7,080
SRCZ20-064-301FE	29 DA-B	03.07.2020	55,9	L3		0,00	67,50	79,90	80,40	82,10	80,10	7,370
CZOR-CPP20-HORVS-075SYT	28 DA-B	02.07.2020	41,6	L1		0,00	50,90	65,70	70,60	65,40	74,10	6,750
CZOR-CPP20-HORVS-075SYT	28 DA-B	02.07.2020	43,4	L2		0,00	47,80	62,80	73,50	67,70	76,10	9,960
CZOR-CPP20-HORVS-075SYT	28 DA-B	02.07.2020	43,1	L3		0,00	48,20	66,70	79,10	74,00	83,20	10,240
CHR_F_PROTAZO20_EFF8_DE27	14 BA-B	29.06.2020	15	L3		0,00	76,55	82,43	86,22	94,15	33,13	20,049
CHR_F_PROTAZO20_EFF8_DE27	28 BA-B	13.07.2020	48	L1		0,00	24,27	29,02	21,61	54,55	5,37	18,243
CHR_F_PROTAZO20_EFF8_DE27	28 BA-B	13.07.2020	29	L2		0,00	48,20	42,33	40,53	49,40	26,36	16,942
SRDE20-151-301FE	29 DA-B	17.07.2020	5,9	L1		0,00	79,86	87,90	92,20	92,41	82,50	3,090
SRDE20-151-301FE	29 DA-B	17.07.2020	14,3	L2		0,00	81,43	88,39	92,77	91,87	87,01	4,167
SRDE20-151-301FE	0 DA-B	18.06.2020	8,4	L3		0,00	73,98	82,70	86,45	87,15	75,51	3,760
AF/20/JJ/1/ZI/01	14 DA-A	03.06.2020	14,4	L3		0,00	63,00	82,60	89,10	99,10	80,00	15,680
AF/20/JJ/1/ZI/01	14 DA-B	03.06.2020	16,9	L2		0,00	66,70	79,30	89,60	97,40	74,80	13,960
AF/20/JJ/1/ZI/01	26 DA-B	06.07.2020	18,4	L1		0,00	54,20	79,70	85,10	95,90	67,80	7,680
A.T/2020/86/JJ	28 DA-B	01.07.2020	5,8	L2		0,00	82,40	90,80	94,50	53,80	77,20	0,710
A.T/2020/86/JJ	28 DA-B	01.07.2020	5,9	L3		0,00	79,00	88,10	90,10	54,40	80,70	0,970
A.T/2020/87/JJ	21 DA-A/0- DA-B	12.06.2020	5,3	L4		0,00	65,80	57,10	75,20	94,70	78,10	1,170
A.T/2020/87/JJ	14-DA-B	26.06.2020	6,5	L2		0,00	86,50	94,60	99,60	96,90	98,80	2,450
A.T/2020/87/JJ	14-DA-B	26.06.2020	17,2	L3		0,00	50,40	70,10	97,10	74,90	84,00	2,770
A.T/2020/87/JJ	28-DA-B	10.07.2020	10,8	L1		0,00	49,00	54,30	66,40	22,00	46,20	2,240
A.T/2020/87/JJ	28-DA-B	10.07.2020	23,1	L2		0,00	43,50	52,30	68,30	2,60	65,40	4,470
A.T/2020/88/JJ	20 DA-A/0-	09.06.2020	7,6	L4		0,00	26,60	71,10	93,10	96,10	78,30	2,040

	DA-B												
A.T/2020/88/JJ	14-DA-B	23.06.2020	7,2	L2		0,00	70,10	75,70	90,60	58,70	65,30	1,700	
A.T/2020/88/JJ	14-DA-B	23.06.2020	13	L3		0,00	40,80	69,80	81,20	50,60	38,80	4,050	
A.T/2020/88/JJ	28-DA-B	07.07.2020	38,3	L1		0,00	65,90	73,10	77,70	51,50	65,40	7,020	
A.T/2020/89/JJ	15 DA-B	18.06.2020	6,9	L4		0,00	70,70	77,60	82,90	66,30	70,00	0,540	
A.T/2020/89/JJ	35 DA-B	08.07.2020	5,3	L2		0,00	62,90	69,00	80,50	63,30	71,90	0,720	
A.T/2020/89/JJ	35 DA-B	08.07.2020	11,1	L3		0,00	54,40	58,20	70,60	57,10	60,20	0,820	
A.T/2020/090/JJ	29 DA-B	07.07.2020	6,9	L2		0,00	87,50	87,20	94,90	60,20	81,70	1,720	
A.T/2020/090/JJ	29 DA-B	07.07.2020	5,5	L3		0,00	84,80	88,50	93,60	60,00	72,70	0,890	
A.T/2020/091/JJ	14 DA-B	17.06.2020	6	L4		0,00	91,60	93,40	92,70	85,70	90,60	0,490	
A.T/2020/091/JJ	36 DA-B	09.07.2020	8,1	L3		0,00	72,00	76,40	77,00	60,20	65,80	1,370	
Min.			5,1			0,00	24,27	29,02	21,61	2,60	5,37		
Max.			90,63			0,00	97,26	97,72	99,60	99,16	99,28		
Average			23,94			0,00	65,18	76,18	83,23	78,75	74,49		

Table 41. The efficacy of CHR/F/PROTAZO in control of PYRNTE *Pyrenophora teres* in spring barley (plant).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Elatus Era 225 EC	Makler	LSD (P=.05)
						Rate (l/ha)		0,60	0,80	1,00	1; 0,75	1,00	
PYRNTE (<i>Pyrenophora teres</i>)	A.T/2020/86/JJ	28 DA-B	01.07.2020	15,4	Plant P		0,00	82,50	89,60	91,80	55,60	79,30	1,560
	A.T/2020/87/JJ	21 DA-A/0-DA-B	12.06.2020	6,8	Plant P		0,00	66,90	64,80	79,50	95,10	77,60	1,470
	A.T/2020/87/JJ	14-DA-B	26.06.2020	24,5	Plant P		0,00	61,10	77,70	97,80	81,50	88,40	3,590
	A.T/2020/87/JJ	28-DA-B	10.07.2020	33,9	Plant P		0,00	45,20	52,90	67,70	8,80	59,30	4,770
	A.T/2020/88/JJ	20 DA-A/0-DA-B	09.06.2020	11,9	Plant P		0,00	40,00	78,10	92,40	96,60	84,70	2,490
	A.T/2020/88/JJ	14-DA-B	23.06.2020	21,5	Plant P		0,00	54,00	73,60	85,50	55,40	50,50	5,110
	A.T/2020/88/JJ	28-DA-B	07.07.2020	38,3	Plant P		0,00	65,90	73,10	77,70	51,50	65,40	7,020
	A.T/2020/89/JJ	15 DA-B	18.06.2020	10,8	Plant P		0,00	69,20	74,20	80,90	64,00	70,50	1,060
	A.T/2020/89/JJ	35 DA-B	08.07.2020	17,7	Plant P		0,00	57,40	62,10	73,70	59,00	64,50	1,270
	A.T/2020/090/JJ	29 DA-B	07.07.2020	16,7	Plant P		0,00	84,60	86,40	92,80	60,60	77,40	3,050
	A.T/2020/091/JJ	14 DA-B	17.06.2020	9,1	Plant P		0,00	91,70	93,90	94,30	86,80	92,20	0,610
	A.T/2020/091/JJ	36 DA-B	09.07.2020	13,2	Plant P		0,00	74,20	78,60	81,10	61,50	68,90	2,410
	Min.			6,8			0,00	40,00	52,90	67,70	8,80	50,50	
	Max.			38,3			0,00	91,70	93,90	97,80	96,60	92,20	
	Average			18,32			0,00	66,06	75,42	84,60	64,70	73,23	

Table 42. The efficacy of CHR/F/PROTAZO in control of ERYSGR *Blumeria graminis* in spring barley (leaf).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Elatus Era 225 EC, Delaro	Makler, Amistar 250 S.C.	LSD (P=,05)
						Rate (l/ha)		0,60	0,80	1,00	1,00	1,00	
ERYSGR (<i>Blumeria graminis</i>)	AF/20/JJ/1/ZI/01	14 DA-A	03.06.2020	12,5	L3		0,0	70,00	82,00	84,50	82,00	50,00	17,810
	AF/20/JJ/1/ZI/02	14 DA-A	03.06.2020	12,8	L3		0,0	66,80	84,40	89,30	90,70	66,80	12,090
	AF/20/JJ/1/Br/03	21 DA-A	19.06.2020	13,4	L3		0,0	66,50	79,50	85,10	88,80	68,40	12,850
	A.T/2020/87/JJ	21 DA-A/0-DA-B	12.06.2020	5,3	L4		0,0	52,50	68,60	81,10	74,50	24,50	0,820
	A.T/2020/87/JJ	14-DA-B	26.06.2020	5,4	L3		0,0	75,60	85,30	90,30	65,40	35,00	0,830
	A.T/2020/88/JJ	14-DA-B	23.06.2020	5,1	L3		0,0	70,00	83,30	93,10	74,40	41,90	0,490
	SRCZ20-066-301FE	13-DA-A	09.06.2020	7,2	L3		0,0	76,92	84,31	85,94	86,75	77,81	5,715
	SRCZ20-066-301FE	13-DA-A	09.06.2020	10,6	L4		0,0	75,58	77,84	82,71	83,19	73,77	3,861
	SRCZ20-067-301FE	19-DA-A	15.06.2020	5,2	L3		0,0	84,55	86,80	91,66	90,41	83,17	7,513
	SRCZ20-067-301FE	19-DA-A	15.06.2020	5,6	L4		0,0	83,40	91,94	96,11	96,11	85,60	5,988
	SRDE20-151-301FE	0 DA-B	18.06.2020	5,1	L4		0,0	68,75	86,56	89,48	88,06	71,14	4,932
	Min.			5,1			0,00	52,50	68,60	81,10	65,40	24,50	
	Max.			13,4			0,00	84,55	91,94	96,11	96,11	85,60	
	Average			8,02			0,00	71,87	82,78	88,12	83,67	61,64	

Table 43. The efficacy of CHR/F/PROTAZO in control of ERYSGR *Blumeria graminis* in spring barley (plant).

Pest code			ERYSGR (<i>Blumeria graminis</i>)					
Report code			A.T/2020/87/JJ	A.T/2020/87/JJ	A.T/2020/88/JJ	Min.	Max.	Average
DA-A/B			21 DA-A/0-DA-B	14-DA-B	14-DA-B			
date			12.06.2020	26.06.2020	23.06.2020			
% PESSEV			7,5	6,6	7,5	6,6	7,5	7,20
part assessed			Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)						
1	Untreated Check		0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,60	58,20	75,50	75,40	58,20	75,50	69,70
3	CHR/F/PROTAZO 375 S.C.	0,80	74,20	85,70	86,00	74,20	86,00	81,97
4	CHR/F/PROTAZO 375 S.C.	1,00	84,40	91,30	95,00	84,40	95,00	90,23
6	Elatus Era 225 EC	1,00	76,70	65,30	76,70	65,30	76,70	72,90
5	Amistar 250 S.C.	1,00	26,00	34,30	43,90	26,00	43,90	34,73
LSD (P=.05)			0,860	0,810	0,470			

Table 44. The efficacy of CHR/F/PROTAZO in control of RHYNSE *Rhynchosporium secalis* in spring barley (leaf).

						No.	1	2	3	4	6	5	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZ O 375 S.C.	CHR/F/PROTAZ O 375 S.C.	CHR/F/PROTAZ O 375 S.C.	Elatus Era 225 EC, Proline	Makler, Amistar 250 S.C., Azbany	LSD (P=.05)
						Rate (l/ha)		0,60	0,80	1,00	1,00	1,00	
RHYNSE (<i>Rhynchosporium secalis</i>)	SRPL19-303-336FE	21 DA-A/0 DA-B	14.06.2019	6,5	L4		0,0	78,83	83,42	86,91	80,78	79,99	3,906
	SRPL19-303-336FE	14 DA-B	28.06.2019	5,2	L3		0,0	79,26	87,59	91,86	92,70	91,79	3,453
	SRPL19-303-336FE	28 DA-B	12.07.2019	5,1	L1		0,0	82,30	86,24	90,71	93,13	92,13	2,756
	SRPL19-304-336FE	14 DA-B	17.06.2019	12,9	L1		0,0	73,60	81,51	82,60	90,99	84,68	9,545
	SRPL19-304-336FE	28 DA-B	01.07.2019	5,75	L1		0,0	69,03	76,34	83,53	87,83	82,62	13,328
	SRPL19-305-336FE	21 DA-B	21.06.2019	15,8	L3		0,0	71,77	78,94	91,80	90,93	71,32	12,751
	CHR_F_PROTAZO_CZ017	20 DA-B	11.07.2019	6,7	L1		0,0	85,27	94,57	95,50	93,08	84,60	5,012
	CHR_F_PROTAZO_CZ017	20 DA-B	11.07.2019	8,3	L2		0,0	81,37	91,21	92,28	91,50	81,49	3,089
	CZOR-SYT19-HORVS-042RYM	14 DA-A	27.06.2019	10,4	L3		0,0	90,97	91,69	92,17	91,18	91,79	1,725
	CZOR-SYT19-HORVS-042RYM	7 DA-B	11.07.2019	11,8	L2		0,0	92,37	97,21	97,80	98,46	98,14	0,868
	CZOR-SYT19-HORVS-042RYM	7 DA-B	11.07.2019	17,15	L3		0,0	96,85	97,79	98,89	98,95	98,66	0,622
	SRCZ20-067-301FE	24 DA-B	09.07.2020	57,8	L1		0,0	61,19	69,73	72,91	71,86	73,44	9,067
	SRCZ20-067-301FE	24 DA-B	09.07.2020	58,4	L2		0,0	60,78	71,22	73,98	76,67	74,54	10,884
	SRCZ20-067-301FE	24 DA-B	09.07.2020	54,7	L3		0,0	61,95	74,23	75,56	76,25	76,17	9,982
	SRDE20-151-301FE	29 DA-B	17.07.2020	6,8	L2		0,0	60,65	85,78	87,23	89,02	77,06	5,210
	AF/20/JJ/1/ZI/02	14 DA-A	03.06.2020	15,9	L3		0,0	74,90	89,00	95,30	98,80	89,00	14,820
	AF/20/JJ/1/ZI/02	14 DA-B	24.06.2020	18,8	L2		0,0	79,00	86,00	92,30	98,00	79,30	12,210
	AF/20/JJ/1/ZI/02	26 DA-B	24.06.2020	19,4	L1		0,0	64,50	81,00	83,20	92,90	67,70	15,280
	AF/20/JJ/1/Br/03	21 DA-A	19.06.2020	16,3	L3		0,0	73,80	84,60	89,60	95,80	86,50	17,430
	AF/20/JJ/1/Br/03	14 DA-B	03.07.2020	18,8	L2		0,0	77,00	82,70	90,00	96,30	83,30	18,860
	AF/20/JJ/1/Br/03	21 DA-B	10.07.2020	20	L1		0,0	56,30	71,90	82,50	92,20	70,30	23,610
	A.T/2020/86/JJ	28 DA-B	01.07.2020	5,3	L3		0,0	68,70	79,70	91,10	40,80	43,70	1,250
	A.T/2020/89/JJ	15 DA-B	18.06.2020	5,9	L4		0,0	69,70	75,30	83,10	73,30	71,30	3,000
	A.T/2020/89/JJ	35 DA-B	08.07.2020	7,1	L3		0,0	58,70	69,60	74,90	58,30	62,20	1,960

	A.T/2020/090/JJ	14 DA-B	22.06.2020	5,9	L3		0,0	75,10	82,70	82,30	56,50	54,00	2,160
	A.T/2020/090/JJ	14 DA-B	22.06.2020	5,7	L4		0,0	74,10	84,60	90,40	85,10	66,20	1,340
	A.T/2020/090/JJ	29 DA-B	07.07.2020	6,7	L3		0,0	77,60	78,30	88,30	74,80	72,30	1,470
	Min.			5,1			0,00	56,30	69,60	72,91	40,80	43,70	
	Max.			58,4			0,00	96,85	97,79	98,89	98,95	98,66	
	Average			15,89			0,00	73,91	82,70	87,29	84,67	77,93	

Table 45. The efficacy of CHR/F/PROTAZO in control of RHYNSE *Rhynchosporium secalis* in spring barley (plant).

Pest code			RHYNSE (<i>Rhynchosporium secalis</i>)								
Report code			A.T/2020/86/JJ	A.T/2020/86/JJ	A.T/2020/89/JJ	A.T/2020/89/JJ	A.T/2020/090/JJ	A.T/2020/090/JJ	Min.	Max.	Average
DA-A/B			19 DA-B	28 DA-B	15 DA-B	35 DA-B	14 DA-B	29 DA-B			
date			22.06.2020	01.07.2020	18.06.2020	08.07.2020	22.06.2020	07.07.2020			
% PESSEV			5,6	9,4	7,8	12,3	5,7	10,4	5,6	12,3	8,53
part assessed			Plant P	Plant P	Plant P	Plant P	Plant P	Plant P			
No.	Name	Rate (l/ha)									
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,60	61,00	60,30	70,80	66,20	74,60	64,30	60,30	74,60	66,20
3	CHR/F/PROTAZO 375 S.C.	0,80	80,20	73,20	76,80	75,60	83,70	72,20	72,20	83,70	76,95
4	CHR/F/PROTAZO 375 S.C.	1,00	86,80	83,70	84,10	79,60	86,60	80,20	79,60	86,80	83,50
6	Elatus Era 225 EC	1,00	30,00	33,90	73,50	63,40	69,50	58,00	30,00	73,50	54,72
5	Makler 250 SE	1,00	30,60	34,90	74,20	68,70	59,80	63,00	30,60	74,20	55,20
LSD (P=.05)			1,520	1,670	3,580	3,470	3,220	2,020			

Table 46. The efficacy of CHR/F/PROTAZO in control of FUSACU *Fusarium culmorum* in spring barley.

						No.	1	2	3	4	5	6	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Fandango 200 EC	Tazer 250 S.C.	LSD (P=.05)
						Rate (l/ha)		0,60	0,80	1,00	1,00	1,00	
FUSACU (<i>Fusarium culmorum</i>)	AF/20/JJ/1/Pr/06	24 DA-A	03.07.2020	23,4	ear P		0,0	69,30	78,70	85,10	84,00	70,70	10,100
	AF/20/JJ/1/Br/07	21 DA-A	30.06.2020	22,5	ear P		0,0	65,30	75,00	84,40	82,20	65,30	11,870
	A.T/2020/092/JJ	29 DA-A	03.07.2020	14,5	ear P		0,0	46,90	59,30	73,80	68,60	50,30	2,610
	A.T/2020/093/JJ	21 DA-A	15.07.2020	9,1	ear P		0,0	58,00	73,80	84,00	78,50	50,80	1,180
	A.T/2021/102/JJ	21 DA-A	07.07.2021	5,7	ear P		0,0	54,40	71,30	89,60	88,10	44,90	2,400
	AF/21/JJ/19/ZI/1	32 DA-A	20.07.2021	24,7	ear P		0,0	86,58	97,22	98,73	98,99	98,48	3,193
	AF/21/JJ/19/Br/2	32 DA-A	16.07.2021	21,3	ear P		0,0	87,35	94,12	98,24	98,24	97,65	3,446
	AF/21/JJ/19/Ra/3	27 DA-A	22.07.2021	26,3	ear P		0,0	84,52	96,19	98,33	97,62	99,05	2,598
	Min.			5,7			0	46,90	59,30	73,80	68,60	44,90	
	Max.			26,3			0	87,35	97,22	98,73	98,99	99,05	
	Average			18,44			0,00	69,04	80,70	89,03	87,03	72,15	

Table 47. The efficacy of CHR/F/PROTAZO in control of RAMUCC *Ramularia collo-cygni* in spring barley.

						No.	1	2	3	4	5	6	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Proline	Amistar 250 S.C.	LSD (P=.05)
						Rate (l/ha)		0,60	0,80	1,00	0,80	1,00	
RAMUCC (<i>Ramularia collo-cygni</i>)	CHR_F_PROTAZO20_EFF8_DE29	18 DA-A	20.06.2020	11,3	L1		0,0	17,23	44,08	52,23	58,04	15,23	13,377
	CHR_F_PROTAZO20_EFF8_DE29	18 DA-A	20.06.2020	28,8	L2		0,0	26,27	48,13	63,62	66,04	20,73	13,893
	CHR_F_PROTAZO20_EFF8_DE29	34 DA-A	06.07.2020	51,8	L1		0,0	42,90	49,96	62,63	60,24	36,17	10,603
	CHR_F_PROTAZO20_EFF8_DE29	34 DA-A	06.07.2020	60,6	L2		0,0	30,27	44,29	51,11	50,09	27,41	11,316
	CHR_F_PROTAZO20_EFF8_DE30	35 DA-A	26.06.2020	5,4	L2		0,0	81,70	91,82	92,25	53,30	79,91	17,878
	Min.			5,4			0,00	17,23	44,08	51,11	50,09	15,23	
	Max.			60,6			0,00	81,70	91,82	92,25	66,04	79,91	
	Average			31,58			0,00	39,67	55,66	64,37	57,54	35,89	

Table 48. The efficacy of CHR/F/PROTAZO in control of SCLESC Sclerotinia sclerotiorum in winter oilseed rape (stem).

							No.	1	2	3	4	5	6	
Pest code	Report code	DA-A	date	PESSEV (class I-IV)	% PESINC	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Toledo Extra 430 S.C., Tilmor, Proline	Makler 250 SE, Amistar, Ortiva	LSD (P=.05)
							Rate (l/ha)		0,80	0,90	1,00	0,75	1,00	
SCLESC (Sclerotinia sclerotium)	CHR-F-PROTAZO 375 SC	52 DA-A	28.06.2019	18,25	32	stem		0,00	75,00	78,10	71,90	59,40	68,80	4,95
	CHR-F-PROTAZO 375 SC	66 DA-A	12.07.2019	34,25	61	stem		0,00	44,30	54,10	54,10	19,70	44,30	10,56
	A.T/2019/037/RZO	68 DA-A	02.07.2019	25,10	17	stem P		0,0	88,20	94,10	100,00	100,00	94,10	2,270
	A.T/2019/038/RZO	61 DA-A	01.07.2019	25,00	20	stem P		0,0	85,00	95,00	100,00	95,00	90,00	3,160
	A.T/2020/022/RZO	71 DA-A	01.07.2020	25,10	31	stem P		0,0	45,20	53,20	64,50	46,80	50,00	11,880
	A.T/2020/023/RZO	61 DA-A	30.06.2020	25,00	25,5	stem P		0,0	62,70	80,40	88,20	86,30	64,70	1,700
	A.T/2020/024/RZO	59 DA-A	01.07.2020	25,20	25	stem P		0,0	58,00	84,00	88,00	70,00	62,00	6,360
	AF/20/RO/1/Pr/01	7 DA-A	04.05.2020	5,10	20,5	stem P		0,0	57,30	65,90	95,10	85,40	64,60	2,770
	AF/20/RO/1/Pr/01	15 DA-A	12.05.2020	5,05	15	stem P		0,0	60,00	86,70	100,00	86,70	73,30	4,480
	SRDE20-110-301FE	60 DA-A	07.07.2020	18,80	88	stem P		0,0	100,00	100,00	100,00	100,00	100,00	
	SRDE20-111-301FE	60 DA-A	06.07.2020	19,40	81	stem P		0,0	82,10	100,00	100,00	100,00	100,00	6,580
	SRCZ20-059-301FE	69 DA-A	06.07.2020	1,77	52	stem P		0,0	90,80	95,30	98,00	94,90	98,10	3,240
	Min.				15			0,00	44,30	53,20	54,10	19,70	44,30	
	Max.				88			0,00	100,00	100,00	100,00	100,00	100,00	
	Average				39,00			0,00	70,72	82,23	88,32	78,68	75,83	

Table 49. The efficacy of CHR/F/PROTAZO in control of ALTEBA *Alternaria brassicae* in winter oilseed rape (leaf).

Pest code			ALTEBA (<i>Alternaria brassicae</i>)						
Report code			SRCZ19-028-301FE	AF/20/RO/1/Pr/02	AF/20/RO/1/ZL/03	SRCZ20-060-301FE	Min.	Max.	Average
DA-A/B			14 DA-A	25 DA-A	28 DA-A	23 DA-A			
date			28.05.2019	02.06.2020	05.06.2020	22.05.2020			
% PESSEV			5,2	5,4	5,5	5,21	5,2	5,5	5,33
part assessed			leaf P	leaf P	leaf P	leaf P			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	86,37	98,90	92,10	73,49	73,49	98,90	87,72
3	CHR/F/PROTAZO 375 S.C.	0,90	85,00	98,90	82,80	76,76	76,76	98,90	85,87
4	CHR/F/PROTAZO 375 S.C.	1,00	89,21	100,00	94,30	84,08	84,08	100,00	91,90
5	Tilmor 240 EC, Toledo Extra	1,00	87,34	98,90	97,70	84,84	84,84	98,90	92,20
6	Amistar 250 S.C., Makler	1,00	87,11	79,70	80,00	76,36	76,36	87,11	80,79
LSD (P=.05)			2,179	0,900	1,180	1,732			

Table 50. The efficacy of CHR/F/PROTAZO in control of ALTEBA Alternaria brassicae in winter oilseed rape (pod).

						No.	1	2	3	4	5	6	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Tilmor 240 EC, Proline, Propulse, Toledo Extra	Amistar 250 S.C., Ortiva, Makler	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
ALTEBA (Alternaria brassicae)	A.T/2019/035/RZO	63 DA-A	02.07.2019	13,8	Pod P		0,0	68,50	76,50	83,40	78,70	79,40	0,430
	A.T/2019/036/RZO	50 DA-A	02.07.2019	12,1	Pod P		0,0	66,00	74,60	82,60	73,20	75,90	0,620
	A.T/2020/024/RZO	59 DA-A	01.07.2020	31,8	Pod P		0,0	67,50	68,50	74,80	60,00	64,80	2,850
	A.T/2020/024/RZO	71 DA-A	13.07.2020	34,9	Pod P		0,0	68,30	73,50	78,50	61,10	64,90	2,330
	SRDE20-110-301FE	60 DA-A	07.07.2020	7,3	Pod P		0,0	58,14	77,38	86,78	86,48	76,93	1,687
	SRDE20-111-301FE	60 DA-A	06.07.2020	5,4	Pod P		0,0	83,53	86,30	92,66	81,81	82,45	8,922
	SRDE20-112-301FE	50 DA-A	01.07.2020	7,3	Pod P		0,0	60,65	71,19	84,15	82,19	75,34	2,536
	SRDE20-113-301FE	55 DA-A	06.07.2020	6,4	Pod P		0,0	64,74	78,35	78,43	79,46	80,55	6,427
	SRCZ20-060-301FE	69 DA-A	07.07.2020	5,59	Pod P		0,0	80,18	83,10	90,52	88,28	87,98	4,440
	SRCZ20-061-301FE	48 DA-A	25.06.2020	5,33	Pod P		0,0	65,78	74,80	86,74	85,61	86,12	1,578
	Min.			5,33			0,00	58,14	68,50	74,80	60,00	64,80	
	Max.			34,9			0,00	83,53	86,30	92,66	88,28	87,98	
	Average			12,99			0,00	68,33	76,42	83,86	77,68	77,44	

Table 51. The efficacy of CHR/F/PROTAZO in control of VERTLO *Verticillium longisporum* in winter oilseed rape (stem).

						No.	1	2	3	4	5	6	
Pest code	Report code	DA-A	date	PESSINC %	part assessed	Name	Untreated Check	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	CHR/F/PROTAZO 375 S.C.	Tilmor 250 EC, Toledo Extra	Amistar 250 S.C., Makler	LSD (P=.05)
						Rate (l/ha)		0,80	0,90	1,00	1,00	1,00	
VERTLO (<i>Verticillium longisporum</i>)	CHR-F-PROTAZO 375 SC	72 DA-A	18.07.2019	67	stem		0,00	40,30	37,30	35,80	16,40	25,40	10,67
	A.T/2019/037/RZO	86 DA-A	20.07.2019	42,00	stem C		0,00	19,00	28,60	31,00	26,20	23,80	4,02
	A.T/2019/038/RZO	88 DA-A	28.07.2019	48	stem C		0,00	22,90	25,00	33,30	22,90	29,20	8,36
	A.T/2020/022/RZO	85 DA-A	15.07.2020	64,40	stem P		0,0	21,40	33,60	43,10	1,20	21,00	8,710
	SRCZ20-060-301FE	23 DA-A	22.05.2020	65	stem P		0,00	36,90	33,80	70,40	68,80	50,5	13,22
	SRCZ20-060-301FE	69 DA-A	07.07.2020	69	stem P		0,00	32,30	39,50	73,00	73,00	71,9	8,41
	SRCZ20-061-301FE	48 DA-A	25.06.2020	63,00	stem P		0,0	43,80	52,70	72,80	71,10	69,30	1,920
	Min.			42,00			0,00	19,00	25,00	31,00	1,20	21,00	
	Max.			69,00			0,00	43,80	52,70	73,00	73,00	69,30	
	Average			59,77			0,00	30,94	35,79	51,34	39,94	33,74	

Table 52. The efficacy of CHR/F/PROTAZO in control of BOTRCI Botrytis cinerea in winter oilseed rape (pod P).

Pest code			BOTRCI (Botrytis cinerea)				
Report code			SRCZ19-028-301FE	SRCZ20-061-301FE	Min.	Max.	Average
DA-A			41 DA-A	48 DA-A			
date			24.06.2019	25.06.2020			
PESSEV %			5,5	5,32	5,32	5,50	5,41
part assessed			pod P	pod P			
No.	Name	Rate (l/ha)					
1	Untreated Check		0,00	0,00	0,00	0,00	0,00
2	CHR/F/PROTAZO 375 S.C.	0,80	64,47	72,92	64,47	72,92	68,70
3	CHR/F/PROTAZO 375 S.C.	0,90	72,79	76,84	72,79	76,84	74,82
4	CHR/F/PROTAZO 375 S.C.	1,00	82,40	80,56	80,56	82,40	81,48
5	Tilmor	1,00	82,39	80,91	80,91	82,39	81,65
6	Amistar	1,00	76,30	76,19	76,19	76,30	76,25
LSD (P=.05)			2,191	2,215			

Appendix 6 Summary of phytotoxicity trials data in summary form

Table 1 – data from phytotoxicity trials – winter wheat

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %					
A.T/2019/028/PO	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	-	-	-
	date		24.05.2019	31.05.2019	14.06.2019	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2019/029/PO	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	21 DA-A	-	-	-
	date		29.05.2019	05.06.2019	19.06.2019	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2019/030/PO	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	-	-	-	-
	date		11.06.2019	25.06.2019	-	-	-	-
	Untreated		0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	-	-	-	-
	Delaro 325 SC	1	0	0	-	-	-	-
	Makler 250 SE	1	0	0	-	-	-	-
	LSD (P=0.05)		-	-	-	-	-	-
A.T/2019/031/PO	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	24 DA-A	-	-	-
	date		14.06.2019	21.06.2019	01.07.2019	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=0.05)		-	-	-	-	-	-
A.T/2020/009/PO	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	14 DA-B	21 DA-B	-
	date		24.03.2020	07.04.2020	14.04.2020	21.04.2020	28.04.2020	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	LSD (P=0.05)		-	-	-	-	-	-
A.T/2020/010/PO	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	14 DA-B	21 DA-B	-
	date		24.03.2020	07.04.2020	14.04.2020	21.04.2020	28.04.2020	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/011/PO	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	14 DA-B	21 DA-B	-
	date		23.03.2020	06.04.2020	13.04.2020	20.04.2020	27.04.2020	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/012/PO	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	14 DA-B	21 DA-B	-
	date		23.03.2020	06.04.2020	13.04.2020	20.04.2020	27.04.2020	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/013/PO	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	31 DA-A	-	-	-
	date		13.04.2020	27.04.2020	07.05.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 S.C.	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/PO/1/Pr/01	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	-	-	-
	date		25.03.2020	01.04.2020	15.04.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1				-	-	-
	Azoxin 250 SE	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/PO/1/ZI/02	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	45 DA-A	-	-	-
	date		25.03.2020	01.04.2020	02.05.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE	1				-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/PO/1/Pr/03	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	21 DA-A	-	-	-
	date		27.05.2020	03.06.2020	10.06.2020	-	-	-
	Untreated		0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1				-	-	-
	Azoxin 250 SE	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=,05)		-	-	-	-	-	-
AF/20/PO/1/Br/04	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	21 DA-A	-	-	-
	date		03.06.2020	10.06.2020	17.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE	1	0	0	0	-	-	-
	LSD (P=,05)		-	-	-	-	-	-
AF/20/PO/1/Br/05	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	27 DA-A	-	-	-
	date		16.06.2020	30.07.2020	06.07.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1				-	-	-
	Azoxin 250 SE	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=,05)		-	-	-	-	-	-
SRCZ19-022-301FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	34 DA-A	80 DA-A	-	-

	date		22.04.2019	29.04.2019	19.05.2019	04.07.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ19-024-301FE	Timing of assessment	DA-A/B	9 DA-A	20 DA-A	34 DA-A	66 DA-A	-	-
	date		29.04.2019	10.05.2019	24.05.2019	25.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ19-023-301FE	Timing of assessment	DA-A/B	9 DA-A	20 DA-A	34 DA-A	66 DA-A	-	-
	date		29.04.2019	10.05.2019	24.05.2019	25.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ19-025-301FE	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	30 DA-A	60 DA-A	-	-

	date		29.04.2019	13.05.2019	22.05.2019	21.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ19-026-301FE	Timing of assessment	DA-A/B	8 DA-A	15 DA-A	29 DA-A	43 DA-A	-	-
	date		04.06.2019	11.06.2019	25.06.2019	09.07.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Amistar 250 SC	1	0	0	0	0	0	
	LSD (P=.05)		-	-	-	-	-	-
SRCZ19-029-301FE	Timing of assessment	DA-A/B	7 DA-A	13 DA-A	25 DA-A	-	-	-
	date		14.06.2019	20.06.2019	02.07.2019	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Amistar 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ19-027-301FE	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	21 DA-B	-	-

	date		24.05.2019	06.06.2019	13.06.2019	27.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ19-030-301FE	Timing of assessment	DA-A/B	7 DA-A	17 DA-A	-	-	-	-
	date		24.06.2019	04.07.2019	-	-	-	-
	Untreated		0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	-	-	-	-
	Delaro 325 SC	1	0	0	-	-	-	-
	Amistar 250 SC	1	0	0	-	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-101-301FE	Timing of assessment	DA-A/B	10 DA-A	14 DA-A	28 DA-A	75 DA-A	-	-
	date		04.05.2020	08.05.2020	22.05.2020	08.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 375 SC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-102-301FE	Timing of assessment	DA-A/B	10 DA-A	19 DA-A	33 DA-A	75 DA-A	-	-

	date		04.05.2020	13.05.2020	27.05.2020	08.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 375 SC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-103-301FE	Timing of assessment	DA-A/B	8 DA-A	21 DA-A	35 DA-A	83 DA-A	-	-
	date		01.05.2020	14.05.2020	28.05.2020	15.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 375 SC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-104-301FE	Timing of assessment	DA-A/B	7 DA-A	20 DA-A	32 DA-A	58 DA-A	-	-
	date		30.04.2020	13.05.2020	25.05.2020	20.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 375 SC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ20-052-301FE	Timing of assessment	DA-A/B	10 DA-A	19 DA-A	33 DA-A	65 DA-A	-	-

	date		21.04.2020	30.04.2020	14.05.2020	15.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO_EFF20_CZ02	Timing of assessment	DA-A/B	7 DA-A	15 DA-A	31 DA-A	62 DA-A	-	-
	date		14.05.2020	22.05.2020	07.06.2020	08.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-105-301FE	Timing of assessment	DA-A/B	8 DA-A	0 DA-B	7 DA-B	15 DA-B	35 DA-B	45 DA-B
	date		26.05.2020	01.06.2020	08.06.2020	16.06.2020	06.07.2020	16.07.2020
	Untreated		0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	0
	Proline 375 SC	0,8	0	0	0	0	0	0
	Amistar 250 SC	1	0	0	0	0	0	0
	LSD (P=.05)		-	-	-	-	-	-
SRCZ20-054-301FE	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	32 DA-A	-	-	-

	date		18.06.2020	02.07.2020	13.07.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Amistar 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ20-055-301FE	Timing of assessment	DA-A/B	8 DA-A	21 DA-A	33 DA-A	-	-	-
	date		12.06.2020	25.06.2020	07.07.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Amistar 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-106-301FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	27 DA-A	32 DA-A	-	-
	date		26.06.2020	03.07.2020	16.07.2020	21.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 375 SC	0,8	0	0	0	0	-	-
	Azbany 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO_EFF5_DE14	Timing of assessment	DA-A/B	10 DA-A	36 DA-A	-	-	-	-

	date		08.06.2020	04.07.2020	-	-	-	-
	Untreated		0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	-	-	-	-
	Proline 375 SC	0,8	0	0	-	-	-	-
	Amistar 250 SC	1	0	0	-	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF5_DE15	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	42 DA-A	-	-
	date		04.06.2020	11.06.2020	25.06.2020	09.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 375 SC	0,8	0	0	0	0	-	-
	Torero 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-136-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	35 DA-A	63 DA-A	-	-
	date		03.05.2019	10.05.2019	31.05.2019	28.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Azoxin 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-137-336FE	Timing of assessment	DA-A/B	7 DA-A	13 DA-A	27 DA-A	55 DA-A	-	-

	date		04.05.2019	10.05.2019	24.05.2019	21.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Azoxin 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-138-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	59 DA-A	-	-
	date		29.04.2019	06.05.2019	20.05.2019	20.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Azoxin 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-139-336FE	Timing of assessment	DA-A/B	10 DA-A	21 DA-A	35 DA-A	53 DA-A	-	-
	date		06.05.2019	17.05.2019	31.05.2019	18.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Azoxin 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-140-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	21 DA-A	28 DA-A	35 DA-A	-

	date		27.05.2019	03.06.2019	10.06.2019	17.06.2019	24.06.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Azoxin 250 SE	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-141-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	-	-	-
	date		18.06.2019	25.06.2019	09.07.2019	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-144-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	0 DA-B	7 DA-B	34 DA-B	44 DA-B
	date		20.05.2019	27.05.2019	01.06.2019	08.06.2019	14.06.2019	05.07.2019
	Untreated		0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	0
	Delaro 325 SC	1	0	0	0	0	0	0
	Azoxin 250 SE	1	0	0	0	0	0	0
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-145-336FE	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	14 DA-B	28 DA-B	-

	date		11.05.2019	24.05.2019	31.05.2019	07.06.2019	21.06.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Azoxin 250 SE	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-146-336FE	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	14 DA-B	35 DA-B	-
	date		17.05.2019	31.05.2019	07.06.2019	14.06.2019	05.07.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Azoxin 250 SE	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-

Table 2 – data from phytotoxicity trials – winter triticale

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %					
SRPL19-142-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	35 DA-A	44 DA-A	-	-
	date		13.05.2020	20.05.2020	10.06.2020	19.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Azoxin 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-143-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	35 DA-A	49 DA-A	-	-
	date		03.05.2019	10.05.2019	31.05.2019	14.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Azoxin 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2019/032/PŽO	Timing of assessment	DA-A/B	7 DA-A	14-21 DA-A	28-42 DA-A	-	-	-
	date		14.05.2019	28.05.2019	18.06.2019	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2019/033/PŽO	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	21 DA-B	-	-
	date		08.05.2019	22.05.2019	29.05.2019	12.06.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Makler 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2019/034/PŽO	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	27 DA-A	-	-	-
	date		11.06.2019	18.05.2019	01.07.2019	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
CZOR-SYT19-TTLSS-030RYM	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	42 DA-A	-	-
	date		01.06.2019	08.06.2019	22.06.2019	06.07.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CZOR-SYT19-TTLSS-051NEC	Timing of assessment	DA-A/B	8 DA-A	20 DA-A	7 DA-B	22 DA-B	36 DA-B	-
	date		29.05.2019	10.06.2019	17.06.2019	02.07.2019	16.07.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Amistar 250 SC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO_CZ11	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	7 DA-B	14 DA-B	29 DA-B	-
	date		30.05.2019	06.06.2019	19.06.2019	26.06.2019	11.07.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Amistar 250 SC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
CZOR-SYT19-TTLSS-031RYM	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	-	-	-
	date		27.06.2019	04.07.2019	18.07.2019	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Amistar 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/014/PŽO	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	41 DA-A	-	-	-
	date		24.03.2020	07.04.2020	27.04.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/015/PŽO	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	14 DA-B	21 DA-B	-
	date		24.03.2020	07.04.2020	14.04.2020	21.04.2020	28.04.2020	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Delaro 325 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/016/PŽO	Timing of assessment	DA-A/B	7 DA-A	16 DA-A	0 DA-B	7 DA-B	21 DA-B	42 DA-B
	date		14.04.2020	23.04.2020	05.05.2020	12.05.2020	26.05.2020	16.06.2020
	Untreated		0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	0

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	0
	Delaro 325 SC	1	0	0	0	0	0	0
	Makler 250 SE	1	0	0	0	0	0	0
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/017/PŽO	Timing of assessment	DA-A/B	7 DA-A	15 DA-A	0 DA-B	7 DA-B	21 DA-B	41 DA-B
	date		15.04.2020	23.04.2020	06.05.2020	13.05.2020	27.05.2020	16.06.2020
	Untreated		0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	0
	Delaro 325 SC	1	0	0	0	0	0	0
	Makler 250 SE	1	0	0	0	0	0	0
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/018/PŽO	Timing of assessment	DA-A/B	7 DA-A	18 DA-A	35 DA-A	-	-	-
	date		16.04.2020	27.04.2020	14.05.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/019/PŽO	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	39 DA-A	-	-	-
	date		22.05.2020	05.06.2020	23.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/020/PŽO	Timing of assessment	DA-A/B	7 DA-A	19 DA-A	32 DA-A	-	-	-
	date		15.05.2020	27.05.2020	09.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/021/PŽO	Timing of assessment	DA-A/B	7 DA-A	20 DA-A	29 DA-A	-	-	-
	date		04.06.2020	17.06.2020	26.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/PszO/1/Pr/01	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	-	-	-
	date		25.03.2020	01.04.2020	15.04.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE/Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/PszO/1/Br/02	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	21 DA-A	-	-	-
	date		14.04.2020	21.04.2020	28.04.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE/Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/PszO/1/Pr/03	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	21 DA-A	-	-	-
	date		25.05.2020	01.06.2020	08.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE/Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/PszO/1/Br/04	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	21 DA-A	-	-	-
	date		23.05.2020	30.05.2020	06.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE/Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/PszO/1/ZI/05	Timing of assessment	DA-A/B	8 DA-A	15 DA-A	29 DA-A	-	-	-
	date		05.06.2020	12.06.2020	26.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE/Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/PszO/1/Br/06	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	-	-	-
	date		05.06.2020	12.06.2020	26.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE/Makler 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ20-056-301FE	Timing of assessment	DA-A/B	8 DA-A	21 DA-A	35 DA-A	55 DA-A	-	-
	date		21.05.2020	03.06.2020	17.06.2020	07.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ20-057-301FE	Timing of assessment	DA-A/B	9 DA-A	16 DA-A	35 DA-A	56 DA-A	-	-
	date		27.05.2020	03.06.2020	22.06.2020	13.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ20-058-301FE	Timing of assessment	DA-A/B	9 DA-A	20 DA-A	44 DA-A	-	-	-
	date		29.05.2020	09.06.2020	03.07.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Amistar 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-107-301FE	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	35 DA-A	61 DA-A	-	-
	date		29.04.2020	13.05.2020	27.05.2020	22.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 250 EC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-108-301FE	Timing of assessment	DA-A/B	11 DA-A	22 DA-A	38 DA-A	46 DA-A	-	-
	date		27.05.2020	07.06.2020	23.06.2020	01.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Input Classic 460 EC	1,25	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-109-301FE	Timing of assessment	DA-A/B	9 DA-A	14 DA-A	28 DA-A	-	-	-
	date		05.06.2020	10.06.2020	24.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Input Classic 460 EC	1,25	0	0	0	-	-	-
	Azbany 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR-F-PROTAZO-EFF01-DE016	Timing of assessment	DA-A/B	10 DA-A	21 DA-A	37 DA-A	76 DA-A	-	-
	date		18.04.2020	29.04.2020	15.05.2020	23.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 250 EC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF3_DE17	Timing of assessment	DA-A/B	9 DA-A	24 DA-A	37 DA-A	50 DA-A	-	-
	date		07.05.2020	22.05.2020	04.06.2020	17.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 250 EC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF2_DE18	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	14 DA-B	28 DA-B	37 DA-B
	date		13.05.2020	26.05.2020	02.06.2020	09.06.2020	23.06.2020	02.07.2020
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Proline 250 EC	0,8	0	0	0	0	0	-
	Torero 250 SC	1	0	0	0	0	0	
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF2_DE19	Timing of assessment	DA-A/B	13 DA-A	7 DA-B	38 DA-B	51 DA-B	-	-
	date		12.05.2020	19.05.2020	19.06.2020	02.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 250 EC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF4_DE20	Timing of assessment	DA-A/B	7 DA-A	22 DA-A	28 DA-A	48 DA-A	-	-
	date		14.05.2020	22.05.2020	04.06.2020	24.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 250 EC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF4_DE21	Timing of assessment	DA-A/B	7 DA-A	20 DA-A	28 DA-A	45 DA-A	-	-
	date		12.05.2020	25.05.2020	02.06.2020	19.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 250 EC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF5_DE22	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	-	-	-	-
	date		01.06.2020	15.06.2020	-	-	-	-
	Untreated		0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	-	-	-	-
	Proline 250 EC	0,8	0	0	-	-	-	-
	Amistar 250 SC	1	0	0	-	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL2020_404_336_FE	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	7 DA-B	28 DA-B	-	-
	date		16.05.2020	30.05.2020	06.06.2020	27.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Delaro 325 SC	1	0	0	0	0	-	-
	Azoxin 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL20-405-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	-	-	-
	date		17.06.2020	24.06.2020	08.07.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Azoxin 250 SE	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL20-406-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	-	-	-
	date		16.06.2020	23.06.2020	07.07.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Delaro 325 SC	1	0	0	0	-	-	-
	Amistar 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-

Table 3 – data from phytotoxicity trials – spring barley

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %					
A.T/2020/86/JJ	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	14-21 DA-A	7 DA-B	14-21 DA-B	28-42 DA-B
	date		15.05.2020	22.05.2020	03.06.2020	10.06.2020	22.06.2020	02.07.2020
	Untreated		0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	0
	Elatus Era 225 EC	1	0	0	0	0	0	0
	Makler 250 SE	1	0	0	0	0	0	0
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/87/JJ	Timing of assessment	DA-A/B	7 DA-A	14-21 DA-A	7 DA-B	14-21 DA-B	28-42 DA-B	-
	date		29.05.2020	12.06.2020	19.06.2020	26.06.2020	10.07.2020	
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/88/JJ	Timing of assessment	DA-A/B	7 DA-A	14-21 DA-A	7 DA-B	14-21 DA-B	28-42 DA-B	-
	date		27.05.2020	09.06.2020	16.06.2020	23.06.2020	07.07.2020	
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC							

	Elatus Era 225 EC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/89/JJ	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	14-21 DA-A	7 DA-B	14-21 DA-B	28-42 DA-B
	date		22.05.2020	29.05.2020	03.06.2020	10.06.2020	18.06.2020	08.07.2020
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/090/JJ	Timing of assessment	DA-A/B	7 DA-A	14-21 DA-A	7 DA-B	14-21 DA-B	28-42 DA-B	-
	date		25.05.2020	08.06.2020	15.06.2020	22.06.2020	07.07.2020	
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/091/JJ	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	14-21 DA-A	7 DA-B	14-21 DA-B	28-42 DA-B
	date		22.05.2020	29.05.2020	03.06.2020	10.06.2020	17.06.2020	09.07.2020
	Untreated		0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	0

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	0
	Elatus Era 225 EC	1	0	0	0	0	0	0
	Makler 250 SE	1	0	0	0	0	0	0
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/092/JJ	Timing of assessment	DA-A/B	7 DA-A	28 DA-A	-	-	-	-
	date		11.06.2020	03.07.2020	-	-	-	-
	Untreated		0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	-	-	-	-
	Fandango 200 EC	1	0	0	-	-	-	-
	Tazer 250 SC	1	0	0	-	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2020/093/JJ	Timing of assessment	DA-A/B	7 DA-A	36 DA-A	-	-	-	-
	date		01.07.2020	15.07.2020	-	-	-	-
	Untreated		0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	-	-	-	-
	Fandango 200 EC	1	0	0	-	-	-	-
	Tazer 250 SC	1	0	0	-	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
A.T/2021/102/JJ	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	-	-	-	-
	date		23.06.2021	07.07.2021	-	-	-	-
	Untreated		0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	-	-	-	-
	Fandango 200 EC	1	0	0	-	-	-	-
	Tazer 250 SC	1	0	0	-	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/JJ/1/ZI/01	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	7 DA-B	14 DA-B	-	-
	date		27.05.2020	03.06.2020	17.06.2020	24.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Elatus Era 225 EC	1	0	0	0	0	-	-
	Azoxin 250 SE/ Makler 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/JJ/1/ZI/02	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	7 DA-B	14 DA-B	-	-
	date		27.05.2020	03.06.2020	17.06.2020	24.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Elatus Era 225 EC	1	0	0	0	0	-	-
	Azoxin 250 SE/ Makler 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/JJ/1/Br/03	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	7 DA-B	14 DA-B	-	-
	date		05.06.2020	12.06.2020	26.06.2020	03.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Elatus Era 225 EC	1	0	0	0	0	-	-
	Azoxin 250 SE/ Makler 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/JJ/1/Pr/04	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	7 DA-B	21 DA-B	-	-
	date		02.06.2020	16.06.2020	23.06.2020	07.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Elatus Era 225 EC	1	0	0	0	0	-	-
	Azoxin 250 SE/ Makler 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/JJ/1/Br/05	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	7 DA-B	14 DA-B	-	-
	date		05.06.2020	12.06.2020	05.06.2020	12.06.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Elatus Era 225 EC	1	0	0	0	0	-	-
	Azoxin 250 SE/ Makler 250 SE	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/JJ/1/Pr/06	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	24 DA-A	-	-	-
	date		16.06.2020	23.06.2020	03.07.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Fandango 200 EC	1	0	0	0	-	-	-
	Tazer 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/20/JJ/1/Br/07	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	-	-	-	-
	date		16.06.2020	30.06.2020	-	-	-	-
	Untreated		0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	-	-	-	-
	Fandango 200 EC	1	0	0	-	-	-	-
	Tazer 250 SC	1	0	0	-	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/21/JJ/19/Z/1	Timing of assessment	DA-A/B	7 DA-A	19 DA-A	32 DA-A	-	-	-
	date		25.06.2021	07.07.2021	20.07.2021	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Fandango 200 EC	1	0	0	0	-	-	-
	Tazer 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/21/JJ/19/Br/2	Timing of assessment	DA-A/B	7 DA-A	16 DA-A	32 DA-A	-	-	-
	date		21.06.2021	30.06.2021	16.07.2021	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Fandango 200 EC	1	0	0	0	-	-	-
	Tazer 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
AF/21/JJ/19/Ra/3	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	27 DA-A	-	-	-
	date		02.07.2021	09.07.2021	22.07.2021	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Fandango 200 EC	1	0	0	0	-	-	-
	Tazer 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
CZOR-SYT19-HORVS-069NEC	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	7 DA-B	19 DA-B	-	-
	date		07.06.2019	21.06.2019	28.06.2019	10.07.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	Elatus Era 225 EC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CZOR-SYT19-HORVS-041RY	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	-	-	-
	date		20.06.2019	27.06.2019	11.07.2019	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Amistar 250 SC	1	0	0	0	-	-	-
	Elatus Era 225 EC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
CZOR-SYT19-HORVS-070NEC	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	7 DA-B	20 DA-B	-	-
	date		07.06.2019	21.06.2019	28.06.2019	11.07.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	Elatus Era 225 EC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CZOR-SYT19-HORVS-042RYM	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	21 DA-A	42 DA-A	-	-
	date		20.06.2019	27.06.2019	11.07.2019	25.07.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	Elatus Era 225 EC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CZOR-SYT19-HORVS-043RYM	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	21 DA-A	42 DA-A	-	-
	date		20.06.2019	27.06.2019	11.07.2019	25.07.2019	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	Elatus Era 225 EC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ20-066-301FE	Timing of assessment	DA-A/B	8 DA-A	13 DA-A	21 DA-A	42 DA-A	-	-
	date		04.06.2020	09.06.2020	17.06.2020	08.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	DELARO 325 SC	0,75	0	0	0	0	-	-
	Amistar 250 SC	0,8	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ20-067-301FE	Timing of assessment	DA-A/B	8 DA-A	19 DA-A	34 DA-A	43 DA-A	-	-
	date		04.06.2020	15.06.2020	30.06.2020	09.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	DELARO 325 SC	0,75	0	0	0	0	-	-
	Amistar 250 SC	0,8	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRCZ20-064-301FE	Timing of assessment	DA-A/B	8 DA-A	13 DA-A	25 DA-A	43 DA-A	-	-
	date		29.05.2020	03.06.2020	15.06.2020	03.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	DELARO 325 SC	0,75	0	0	0	0	-	-
	Amistar 250 SC	0,8	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CZOR-CPP20-HORVS-075SYT	Timing of assessment	DA-A/B	10 DA-A	13 DA-A	24 DA-A	41 DA-A	-	-
	date		01.06.2020	04.06.2020	15.06.2020	02.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	DELARO 325 SC	0,75	0	0	0	0	-	-
	Amistar 250 SC	0,8	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRDE20-151-301FE	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	0 DA-B	11 DA-B	29 DA-B	-
	date		22.05.2020	05.06.2020	18.06.2020	29.06.2020	17.07.2020	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Proline 250 EC	0,8	0	0	0	0	0	-
	Azbany 250 SC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF8_DE27	Timing of assessment	DA-A/B	10 DA-A	17 DA-A	14 DA-B	28 DA-B	-	-
	date		08.06.2020	15.06.2020	29.06.2020	13.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 250 EC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF8_DE28	Timing of assessment	DA-A/B	7 DA-A	13 DA-A	34 DA-A	-	-	-
	date		03.06.2020	09.06.2020	30.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Proline 250 EC	0,8	0	0	0	-	-	-
	Amistar 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF8_DE29	Timing of assessment	DA-A/B	7 DA-A	18 DA-A	34 DA-A	-	-	-
	date		02.06.2020	09.06.2020	20.06.2020	-	-	-
	Untreated		0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-	-	-
	Proline 250 EC	0,8	0	0	0	-	-	-
	Amistar 250 SC	1	0	0	0	-	-	-
	LSD (P=.05)		-	-	-	-	-	-
CHR_F_PROTAZO20_EFF8_DE30	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	35 DA-A	46 DA-A	-	-
	date		29.05.2020	05.06.2020	26.06.2020	07.07.2020	-	-
	Untreated		0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	-	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	-	-
	Proline 250 EC	0,8	0	0	0	0	-	-
	Amistar 250 SC	1	0	0	0	0	-	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-301-336FE	Timing of assessment	DA-A/B	7 DA-A	21 DA-A	7 DA-B	14 DA-B	28 DA-B	-
	date		20.05.2019	03.06.2019	10.06.2019	17.06.2019	01.07.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-302-336FE	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	14 DA-B	28 DA-B	-
	date		13.05.2019	27.05.2019	03.06.2019	10.06.2019	24.06.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-303-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	35 DA-A	28 DA-B	-
	date		31.05.2019	07.06.2019	21.06.2019	28.06.2019	12.07.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-304-336FE	Timing of assessment	DA-A/B	10 DA-A	14 DA-A	21 DA-A	14 DA-B	28 DA-B	-
	date		30.05.2019	03.06.2019	10.06.2019	17.06.2019	01.07.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-305-336FE	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	7 DA-B	21 DA-B	36 DA-A	-
	date		17.05.2020	24.05.2019	07.06.2019	21.06.2019		-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-306-336FE	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	8 DA-B	14 DA-B	29 DA-B	-
	date		08.05.2019	22.05.2019	30.05.2019	05.06.2019	20.06.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-

	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-307-336FE	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	7 DA-B	21 DA-B	35 DA-B	-
	date		07.05.2019	21.05.2019	28.05.2019	11.06.2019	25.06.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-
SRPL19-308-336FE	Timing of assessment	DA-A/B	7 DA-A	0 DA-B	8 DA-B	14 DA-B	29 DA-B	-
	date		08.05.2019	22.05.2019	30.05.2019	05.06.2019	20.06.2019	-
	Untreated		0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	0	0	-
	Makler 250 SE	1	0	0	0	0	0	-
	Elatus Era 225 EC	1	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-

Table 4 – data from phytotoxicity trials – winter oilseed rape

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %			
A.T/2019/035/RZO	Timing of assessment	DA-A	14 DA-A	28 DA-A	44 DA-A	63 DA-A
	date		14.05.2019	28.05.2019	13.06.2019	02.07.2019
	Untreated		0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0
	Toledo Extra 430 SC	0,75	0	0	0	0
	Makler 250 SE	1	0	0	0	0
	LSD (P=,05)		-	-	-	-
A.T/2019/036/RZO	Timing of assessment	DA-A	14 DA-A	28 DA-A	35 DA-A	50 DA-A
	date		27.05.2019	03.06.2019	17.06.2019	02.07.2019
	Untreated		0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0
	Toledo Extra 430 SC	0,75	0	0	0	0
	Makler 250 SE	1	0	0	0	0
	LSD (P=,05)		-	-	-	-
A.T/2019/037/RZO	Timing of assessment	DA-A	14 DA-A	68 DA-A	86 DA-A	-
	date		09.05.2019	02.07.2019	20.07.2019	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-

	Toledo Extra 430 SC	0,75	0	0	0	-
	Makler 250 SE	1	0	0	0	-
	LSD (P=,05)		-	-	-	-
A.T/2019/038/RZO	Timing of assessment	DA-A	14 DA-A	61 DA-A	88 DA-A	-
	date		15.05.2019	01.07.2019	28.07.2019	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-
	Toledo Extra 430 SC	0,75	0	0	0	-
	Makler 250 SE	1	0	0	0	-
	LSD (P=,05)		-	-	-	-
A.T/2020/022/RZO	Timing of assessment	DA-A	14 DA-A	24 DA-A	71 DA-A	85 DA-A
	date		05.05.2020	15.05.2020	01.07.2020	15.07.2020
	Untreated		0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0
	Toledo Extra 430 SC	0,75	0	0	0	0
	Makler 250 SE	1	0	0	0	0
	LSD (P=,05)		-	-	-	-
A.T/2020/023/RZO	Timing of assessment	DA-A	14 DA-A	28 DA-A	61 DA-A	93 DA-A
	date		14.05.2020	28.05.2020	30.06.2020	01.08.2020
	Untreated		0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0

	Toledo Extra 430 SC	0,75	0	0	0	0
	Makler 250 SE	1	0	0	0	0
	LSD (P=,05)		-	-	-	-
A.T/2020/024/RZO	Timing of assessment	DA-A	12 DA-A	26 DA-A	59 DA-A	71 DA-A
	date		15.05.2020	29.05.2020	01.07.2020	13.07.2020
	Untreated		0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0
	Toledo Extra 430 SC	0,75	0	0	0	0
	Makler 250 SE	1	0	0	0	0
	LSD (P=,05)		-	-	-	-
AF/20/RO/1/Pr/01	Timing of assessment	DA-A/B	7 DA-A	15 DA-A	21 DA-A	-
	date		04.05.2020	12.05.2020	18.05.2020	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-
	Toledo Extra 430 SC	0,75	0	0	0	-
	Azoxin 250 SE /Makler 250 SE	1	0	0	0	-
	LSD (P=,05)		-	-	-	-
AF/20/RO/1/Pr/02	Timing of assessment	DA-A	7 DA-A	17 DA-A	25 DA-A	-
	date		15.05.2020	25.05.2020	02.06.2020	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-

	Toledo Extra 430 SC	0,75	0	0	0	-
	Azoxin 250 SE /Makler 250 SE	1	0	0	0	-
	LSD (P=,05)		-	-	-	-
AF/20/RO/1/ZL/03	Timing of assessment	DA-A	10 DA-A	19 DA-A	28 DA-A	-
	date		18.05.2020	27.05.2020	05.06.2020	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-
	Toledo Extra 430 SC	0,75	0	0	0	-
	Azoxin 250 SE /Makler 250 SE	1	0	0	0	-
	LSD (P=,05)		-	-	-	-
SRCZ19-028-301FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	41 DA-A	-
	date		21.05.2019	28.05.2019	24.06.2019	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-
	Tilmor 240 EC	1	0	0	0	-
	Amistar 250 SE	1	0	0	0	-
	LSD (P=,05)		-	-	-	-
SRCZ20-059-301FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	69 DA-A	-
	date		05.05.2020	12.05.2020	06.06.2020	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-

	Tilmor 240 EC	1	0	0	0	-
	Amistar 250 SE	1	0	0	0	-
	LSD (P=0.05)		-	-	-	-
SRCZ20-060-301FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	69 DA-A	-
	date		06.05.2020	13.05.2020	07.07.2020	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-
	Tilmor 240 EC	1	0	0	0	-
	Amistar 250 SE	1	0	0	0	-
	LSD (P=0.05)		-	-	-	-
SRCZ20-061-301FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	48 DA-A	-
	date		15.05.2020	22.05.2020	25.06.2020	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-
	Tilmor 240 EC	1	0	0	0	-
	Amistar 250 SE	1	0	0	0	-
	LSD (P=0.05)		-	-	-	-
SRDE20-110-301FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	-	-
	date		15.05.2020	22.05.2020	-	-
	Untreated		0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	-	-

	Proline 250 EC	0,7	0	0	-	-
	Ortiva 250 SC	1	0	0	-	-
	LSD (P=,05)		-	-	-	-
SRDE20-111-301FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A	-
	date		14.05.2020	21.05.2020	28.05.2020	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-
	Proline 250 EC	0,7	0	0	0	-
	Ortiva 250 SC	1	0	0	0	-
	LSD (P=,05)		-	-	-	-
SRDE20-112-301FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A	50 DA-A
	date		12.05.2020	19.05.2020	26.05.2020	02.06.2020
	Untreated		0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0
	Propulse 250 SE	1	0	0	0	0
	Ortiva 250 SC	1	0	0	0	0
	LSD (P=,05)		-	-	-	-
SRDE20-113-301FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A	55 DA-A
	date		12.05.2020	19.05.2020	26.05.2020	02.06.2020
	Untreated		0	0	0	0
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	0
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	0
	CHR/F/PROTAZO 375 SC	1	0	0	0	0

	Propulse 250 SE	1	0	0	0	0
	Ortiva 250 SC	1	0	0	0	0
	LSD (P=0.05)		-	-	-	-
CHR_F_PROTAZO20_EFF06_DE23	Timing of assessment	DA-A	6 DA-A	14 DA-A	90 DA-A	-
	date		30.04.2020	08.05.2020	23.07.2020	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-
	Proline 250 EC	0,7	0	0	0	-
	Ortiva 250 SC	1	0	0	0	-
	LSD (P=0.05)		-	-	-	-
CHR_F_PROTAZO20_EFF07_DE24	Timing of assessment	DA-A	7 DA-A	14 DA-A	53 DA-A	-
	date		18.05.2020	25.05.2020	03.07.2020	-
	Untreated		0	0	0	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	0	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	0	-
	CHR/F/PROTAZO 375 SC	1	0	0	0	-
	Proline 250 EC	0,7	0	0	0	-
	Ortiva 250 SC	1	0	0	0	-
	LSD (P=0.05)		-	-	-	-
CZOR-SYT19-BRSNN-088KUJ	Timing of assessment	DA-A	14 DA-A	52 DA-A	-	-
	date		21.05.2020	28.06.2020	-	-
	Untreated		0	0	-	-
	CHR/F/PROTAZO 375 SC	0,8	0	0	-	-
	CHR/F/PROTAZO 375 SC	0,9	0	0	-	-
	CHR/F/PROTAZO 375 SC	1	0	0	-	-

	Tilmor 240 EC	1	0	0	-	-
	Amistar 250 SE	1	0	0	-	-
	LSD (P=.05)		-	-	-	-

Table 5 – data from phytotoxicity trials – winter wheat

Test report (1)	Testing Unit GEP (2)	Country Region (3)	Dates of trials and GS (4)	Cultivar F/G (5) N/A (6)	Experimental design Test method (7) Replicates	Remarks
A.T/2019/028/PO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Brzeźno / Poland	17.05.2019 BBCH 39-41	Winter wheat/ Arkadia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.1
A.T/2019/029/PO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Wilcze/Poland	22.05.2019 BBCH 45-47	Winter wheat/ Arkadia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.3
A.T/2019/030/PO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Kakulin / Poland	04.06.2019 BBCH 61-65	Winter wheat/ Arkadia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.7
A.T/2019/031/PO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Sławęcin / Poland	07.06.2019 BBCH 61-65	Winter wheat/ Hondia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.1
A.T/2020/009/PO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Rybowo (Chwałodno)/ Poland	A: 17.03.2020 B: 07.04.2020 A: BBCH 25-30 B: BBCH 30-32	Winter wheat/ Arkadia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.0
A.T/2020/010/PO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Wilcze/ Poland	A: 17.03.2020 B: 07.04.2020 A: BBCH 25-30 B: BBCH 31-32	Winter wheat/ Medalistka F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.0
A.T/2020/011/PO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Modrze/ Poland	A: 16.03.2020 B: 08.04.2020 A: BBCH 25-30 B: BBCH 30-32	Winter wheat/ Euforia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 7.8

A.T/2020/012/PO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Łysomice/ Poland	A: 16.03.2020 B: 07.04.2020 A: BBCH 25-28 B: BBCH 31-32	Winter wheat/ RGT Reform F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.8
A.T/2020/013/PO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Rybowo (Chwałodno)/ Poland	06.04.2020 BBCH 30-32	Winter wheat/ Arkadia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.0
AF/20/PO/1/Pr/01	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Przybroda /Poland	A: 18.03.2020 B: 07.04.2020 C: 15.04.2020 BBCH 24-26	Winter wheat/ Arkadia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.8
AF/20/PO/1/Zł/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Złotniki / Poland	A: 18.03.2020 B: 08.04.2020 C: 24.04.2020 BBCH 27-29	Winter wheat/ Bogatka F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.1
AF/20/PO/1/Pr/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Przybroda /Poland	20.05.2020 BBCH 47-51	Winter wheat/ Arkadia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.8
AF/20/PO/1/Br/04	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Brody / Poland	27.05.2020 BBCH 43-47	Winter wheat/ Tonacja F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.7
AF/20/PO/1/Br/05	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637	Brody / Poland	09.06.2020 BBCH 65-71	Winter wheat/ Tonacja F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.7

	Poznań, Poland					
SRCZ19-022-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Sekerkovy Loučky / Czech Republic	15.04.2019 BBCH 28-31	Winter wheat / Avenue F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH
SRCZ19-024-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Lukavice / Czech Republic	20.04.2019 BBCH 30-31	Winter wheat / Pannonia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH
SRCZ19-023-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Lukavice / Czech Republic	20.04.2019 BBCH 30-31	Winter wheat/ Pannonia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH
SRCZ19-025-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Lustenice / Czech Republic	22.04.2019 BBCH 30-31	Winter wheat/ Amandus F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH
SRCZ19-026-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Sekerkovy Loučky/ Czech Republic	27.05.2019 BBCH 45-47	Winter wheat/ Avenue F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH
SRCZ19-029-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Horní Kounice / Czech republic	07.06.2019 BBCH 61-67	Winter wheat/ Gordian F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.1
SRCZ19-027-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Březina / Czech Republic	A: 17.05.2019 B: 06.06.2019 A: BBCH 37-41 B: BBCH 57-59	Winter wheat/ Butterfly F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 5.8
SRCZ19-030-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Přílozany / Czech Republic	17.06.2019 BBCH 67-71	Winter wheat/ Patras F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.5
SRDE20-101-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christenthal, Germany	Untergruppenbach /Germany	24.04.2020 BBCH 25-28	Winter wheat/ RGT Reform	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay loam pH 6.4

				F N		
SRDE20-102-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Neckarwestheim /Germany	24.04.2020 BBCH 25-28	Winter wheat/ RGT Reform F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty san pH 7.2
SRDE20-103-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Möckmühl-Korb/Germany	23.04.2020 BBCH 25-28	Winter wheat/ Barranco F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay pH 6.5
SRDE20-104-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Möckmühl-Kressbach /Germany	23.04.2020 BBCH 25-28	Winter wheat/ RGT Reform F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay loam pH 6.9
SRCZ20-052-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republc	Zaječov/Czech Republic	11.04.2020 BBCH 30-31	Winter wheat/ Gallus F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: pH
CHR_F_PROTAZO_EFF20_CZ02	ZS Krásné Údolí, Krásné Údolí 141, 364 01 Toužim, Czech Republic	Krasne Udoli/Czech Republic	07.05.2020 BBCH 31-32	Winter wheat/ Energo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.2
SRDE20-105-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Möckmühl/Germany	A: 18.05.2020 B: 01.06.2020 A: BBCH 31-34 B: BBCH 49-59	Winter wheat/ Barranco F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay pH 6.5
SRCZ20-054-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republc	Všejan/Czech Republic	11.06.2020 BBCH 65-69	Winter wheat/ Hybery F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: pH
SRCZ20-055-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republc	Tavikovice/Czech Republic	04.06.2020 BBCH 55-65	Winter wheat/ Tobak F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy clay pH 6.2
SRDE20-106-301FE	SynTech Research Germany, Loofter Str.	Möckmühl-Korb/Germany	19.06.2020	Winter wheat/	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay pH 6.5

	9,25593 Christinenthal, Germany		BBCH 61-69	Barranco F N		
CHR_F_PROTAZO20_EFF5_DE14	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Wittighausen/Germany	29.05.2020 BBCH 65	Winter wheat/ Elixer F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 7.3
CHR_F_PROTAZO20_EFF5_DE15	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Vreden/Germany	28.05.2020 BBCH 61	Winter wheat/ Bergamo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sand pH 4.8
SRPL19-136-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Żnin / Poland	26.04.2019 BBCH 30-31	Winter wheat/ Tonacja F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clayey sand pH 6.3
SRPL19-137-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Łęgajny / Poland	27.04.2019 BBCH 30-31	Winter wheat/ Arkadia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.0
SRPL19-138-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Mrówino / Poland	22.04.2019 BBCH 31-32	Winter wheat/ Jantarka F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy clay loam pH 6.9
SRPL19-139-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Krasienin / Poland	28.04.2019 BBCH 30-32	Winter wheat/ Sailor F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.9
SRPL19-140-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Turze / Poland	20.05.2019 BBCH 47-49	Winter wheat/ Linus F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clay loam pH 6.5

SRPL19-141-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Niemce / Poland	11.06.2019 BBCH 61-69	Winter wheat/ Jantarka F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy clay loam pH 6.87
SRPL19-144-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Gietrzwałd / Poland	A: 13.05.2019 B: 01.06.2019 A: BBCH 37 B: BBCH 55-57	Winter wheat/ Delawar F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.2
SRPL19-145-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Pokrzywno / Poland	A: 04.05.2019 B: 24.05.2019 A: BBCH 35-36 B: BBCH 56-59	Winter wheat/ Arkadia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clay loam pH 6.7
SRPL19-146-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Jankowice Wilekie / Poland	A: 10.05.2019 B: 31.05.2019 A: BBCH 35-36 B: BBCH 57-59	Winter wheat/ Patras F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.9

Notes:

- (1): test report number
- (2): Trial responsible entity/ officially recognized organization
- (3): precise place of the trial followed by the country
- (4): Crop growth stage at application timing
- (5): F= field trial, G=protected crop, specify
- (6): N=Natural infestation, A= Artificial inoculation
- (7): Test guideline used

Table 6 – data from phytotoxicity trials – winter triticale

Test report (1)	Testing Unit GEP (2)	Country Region (3)	Dates of trials and GS (4)	Cultivar F/G (5) N/A (6)	Experimental design Test method (7) Replicates	Remarks
SRPL19-142-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Wola Kalkowa/Poland	06.05.2019 BBCH 34-36	Winter triticale /Borowik F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clayey sand pH 6.3
SRPL19-143-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Żnin / Poland	26.04.2019 BBCH 31-32	Winter triticale / Grenad F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clayey sand pH 6.3
A.T/2019/032/PŻO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Chojnice / Poland	07.05.2019 BBCH 39-41	Winter triticale / Meloman F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.8
A.T/2019/033/PŻO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Nowe Gronowo / Poland	A: 01.05.2019 B: 22.05.2019 A: BBCH 33-37 B: BBCH 54-56	Winter triticale / Aveo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sand pH 4.9
A.T/2019/034/PŻO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Chojnice / Poland	04.06.2019 BBCH: 61-65	Winter triticale / Meloman F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.8
CZOR-SYT19-TTLSS-030RYM	Zkušební stanice Rýmařov, s.r.o., 8.května 61, 795 01 Rýmařov, The Czech Republic	Rymarov / Czech Republic	25.05.2019 BBCH 39-41	Winter triticale / Modus F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.4
CZOR-SYT19-TTLSS-051NEC	ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic	Nechanice / Czech Republic	A: 21.05.2019 B: 10.06.2019 A: BBCH 39 B: BBCH 59-61	Winter triticale / Cedrico F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy clay loam pH 6.3
CHR_F_PROTAZO_CZ11	Zkušební stanice Kluky spol. s r.o. 398 19 Kluky/Pisek, Czech Republic	Stachy-Chalupy/ Czech Republic	A: 23.05.2019 B: 12.06.2019 A: BBCH 31-32 B: BBCH 55-59	Winter triticale /Cappricia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.5

CZOR-SYT19-TTLSS-031RYM	Zkušební stanice Rýmařov, s.r.o., 8.května 61, 795 01 Rýmařov, The Czech Republic	Rymarov / Czech Republic	20.06.2019 BBCH 61	Winter triticales /Triamant F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.4
A.T/2020/014/PŽO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Stęszew / Poland	17.03.2020 BBCH 28-32	Winter triticales / Orinoko F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7.1
A.T/2020/015/PŽO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Kamień Krajeński / Poland	A: 17.03.2020 B: 07.04.2020 A: BBCH 25-30 B: BBCH 31-32	Winter triticales / Fredro F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.0
A.T/2020/016/PŽO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Lysomice / Poland	A: 07.04.2020 B: 05.05.2020 A: BBCH 31-32 B: BBCH 49-51	Winter triticales / Rotondo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.7
A.T/2020/017/PŽO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Sierpc / Poland	A: 08.04.2020 B: 06.05.2020 A: BBCH 31-32 B: BBCH 45-49	Winter triticales / Panteon F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.0
A.T/2020/018/PŽO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Sępólno Krajeńskie / Poland	09.04.2020 BBCH 31-32	Winter triticales / Porto F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.2
A.T/2020/019/PŽO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Drobin/Poland	15.05.2020 BBCH 37-41	Winter triticales/ Rotondo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.2
A.T/2020/020/PŽO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Stęszew / Poland	08.05.2020 BBCH 37-39	Winter triticales / Orinoko F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7.1
A.T/2020/021/PŽO	A.T Sp. z o.o. ul. Przemysłowa 3, 88- 300 Mogilno, Poland	Sierpc / Poland	28.05.2020 BBCH 55-59	Winter triticales / Panteon F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.0
AF/20/PszO/1/Pr/01	Poznań University of	Przybroda /Poland	A: 18.03.2020	Winter triticales /	Randomized blocks	Soil type: : loamy sand

	Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland		B: 07.04.2020 C: 15.04.2020 A: BBCH 27-29 B: BBCH 29-31 C: BBCH 31-33	Grenado F N	EPPO PP 1/135 (4)	pH 6.0
AF/20/PszO/1/Br/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Brody / Poland	07.04.2020 BBCH 31-33	Winter triticales / Twingo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: : loamy sand pH 6.7
AF/20/PszO/1/Pr/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Przybroda / Poland	18.05.2020 BBCH 47-49	Winter triticales / Grenado F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: : loamy sand pH 6.0
AF/20/PszO/1/Br/04	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Brody / Poland	16.05.2020 BBCH 47-49	Winter triticales / Twingo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: : loamy sand pH 6.7
AF/20/PszO/1/Zl/05	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Złotniki / Poland	28.05.2020 BBCH 59-61	Winter triticales / Aliko F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: : loamy sand pH 6.4
AF/20/PszO/1/Br/06	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Brody / Poland	29.05.2020 BBCH 61-65	Winter triticales / Twingo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: : loamy sand pH 6.7
SRCZ20-056-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Sekerkovy Loučky / Czech Republic	13.05.2020 BBCH 45	Winter triticales / Talentro F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clayey sand pH

SRCZ20-057-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Sekerkovy Loučky/ Czech Republic	18.05.2020 BBCH 47-51	Winter triticales /Agostino F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy clay pH
SRCZ20-058-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Dolní Dubnany / Czech Republic	20.05.2020 BBCH 49-55	Winter triticales /Agostino F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
SRDE20-107-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Moosham/Germany	22.04.2020 BBCH 31-33	Winter triticales / SU Agendus F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: Silty loam pH 6.9
SRDE20-108-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Göttingen/Germany	16.05.2020 BBCH 45-51	Winter triticales / Tender F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy clay loam pH
SRDE20-109-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Garching bei München /Germany	27.05.2020 BBCH 65-69	Winter triticales / SU Agendus F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 7.6
CHR-F-PROTAZO-EFF01-DE016	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Bütthard-Tiefenthal /Germany	08.04.2020 BBCH 29	Winter triticales / Lombardo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 7.1
CHR_F_PROTAZO20_EFF3_DE17	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Martinsheim/Germany	28.04.2020 BBCH 39-47	Winter triticales / SW Talentro F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.5
CHR_F_PROTAZO20_EFF2_DE18	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Vreden/Germany	06.05.2020 A: BBCH 33-37 B: BBCH 57-61	Winter triticales / Barolo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sand pH 5.7

CHR_F_PROTAZO20_EFF2_DE19	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Theilheim/Germany	A: 29.04.2020 B: 12.05.2020 A: BBCH 39 B: BBCH 49-53	Winter tritcale / Lombardo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 7.7
CHR_F_PROTAZO20_EFF4_DE20	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Martinsheim/Germany	07.05.2020 BBCH 47-49	Winter tritcale / SW Talentro F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH
CHR_F_PROTAZO20_EFF4_DE21	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Theilheim/Germany	05.05.2020 BBCH 49	Winter tritcale / Lombardo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 7.7
CHR_F_PROTAZO20_EFF5_DE22	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Bütthard- Tiefenthal/Germany	25.05.2020 BBCH 65	Winter tritcale / Robinson F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 7.1
SRPL2020_404_336_FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Czeska wieś / Poland	A: 09.05.2020 B: 30.05.2020 A: BBCH 37-41 B: BBCH 57-59	Winter tritcale / Sekret F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy clay pH 6.7
SRPL2020_405_336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Olszany/Poland	10.06.2020 BBCH 63-67	Winter tritcale / Tadeus F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.7
SRPL2020_406_336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Jankowice Wielkie/ Poland	09.06.2020 BBCH 61-69	Winter tritcale / Rotondo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy clay pH 6.5

Notes:

- (1): test report number
- (2): Trial responsible entity/ officially recognized organization
- (3): precise place of the trial followed by the country
- (4): Crop growth stage at application timing
- (5): F= field trial, G=protected crop, specify
- (6): N=Natural infestation, A= Artificial inoculation
- (7): Test guideline used

Table 7 – data from phytotoxicity trials – spring barley

Test report (1)	Testing Unit GEP (2)	Country Region (3)	Dates of trials and GS (4)	Cultivar F/G (5) N/A (6)	Experimental design Test method (7) Replicates	Remarks
A.T/2020/86/JJ	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Modrze/ Poland	A: 08.05.2020 B: 03.06.2020 A: BBCH 28-30 B: BBCH 39-45	Spring barely/ RGT Planet F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.5
A.T/2020/87/JJ	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Czachowo/ Poland	A: 22.05.2020 B: 12.06.2020 A: BBCH 30-32 B:BBCH 49-53	Spring barely/ KWS IRINA F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.6
A.T/2020/88/JJ	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Białe Błoto/ Poland	A: 20.05.2020 B: 09.06.2020 A: BBCH 28-31 B:BBCH 49-55	Spring barely/ Propino F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 4.7
A.T/2020/89/JJ	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Nowy Dwór/ Poland	A: 15.05.2020 B: 03.06.2020 A: BBCH 30-31 B:BBCH 49-51	Spring barely/ Quench F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.6
A.T/2020/090/JJ	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Stęszew/Poland	A: 18.05.2020 B: 08.06.2020 A: BBCH 31-33 B:BBCH 51-57	Spring barley/RGT Planet F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.5
A.T/2020/091/JJ	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Wilkowo/Poland	A: 15.05.2020 B: 03.06.2020 A: BBCH 30-31 B:BBCH 49-51	Spring barley/Laureate F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.3
A.T/2020/092/JJ	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Maniewo/ Poland	04.06.2020 BBCH 49-51	Spring barely/ Ellinor F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.4
A.T/2020/093/JJ	A.T Sp. z o.o. ul. Przemysłowa 3,	Nowy Dwór/ Poland	24.06.2020	Spring barely/ Quench	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.6

	88-300 Mogilno, Poland		BBCH 49-51	F N		
A.T/2021/102/JJ	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Stęszew/ Poland	16.06.2021 BBCH 49-51	Spring barely/KWS Vermont F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.3
AF/20/JJ/1/Zł/01	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Złotniki / Poland	A: 20.05.2020 B: 10.06.2020 A: BBCH 32-34 B: BBCH 52-54	Spring barely/ Stratus F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.4
AF/20/JJ/1/Zł/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Złotniki/ Poland	A: 20.05.2020 B: 10.06.2020 A: BBCH 32-34 B: BBCH 52-54	Spring barely/ Stratus F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.4
AF/20/JJ/1/Br/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Brody/ Poland	A: 29.05.2020 B: 19.06.2020 A: BBCH 35-37 B: BBCH 53-57	Spring barely/ Iron F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.8
AF/20/JJ/1/Pr/04	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Przybroda/ Poland	A: 26.05.2020 B: 16.06.2020 A: BBCH 31-33 B: BBCH 58-61	Spring barely/ Penguin F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0

AF/20/JJ/1/Br/05	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Brody/ Poland	A: 29.05.2020 B: 19.06.2020 A: BBCH 35-37 B: BBCH 53-57	Spring barely/ Iron F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.8
AF/20/JJ/1/Pr/06	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Przybroda/ Poland	09.06.2020 BBCH 49-52	Spring barely/ Penguin F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/20/JJ/1/Br/07	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Brody/ Poland	09.06.2020 BBCH 49-55	Spring barely/ Iron F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.8
AF/21/JJ/19/Zł/1	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Złotniki / Poland	18.06.2021 BBCH 49-51	Spring barely/ Kucyk F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7.0
AF/21/JJ/19/Br/2	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Brody/ Poland	14.06.2021 BBCH 49-52	Spring barely/ Iron F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.8

AF/21/JJ/19/Ra/3	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	Rataje/ Poland	25.06.2021 BBCH 47-51	Spring barely/ Orphelia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
CZOR-SYT19-HORVS-069NEC	ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic	Nechanice/ Czech Republic	A: 31.05.2019 B: 21.06.2019 A: BBCH 37-39 B: BBCH 59-63	Spring barley/ Malz F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clay loam pH 6.5
CZOR-SYT19-HORVS-041RY	ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic	Rymarov/ Czech Republic	A: 13.06.2019 B: 04.07.2019 A: BBCH 37 B: BBCH 45-47	Spring barley/ Francin F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.4
CZOR-SYT19-HORVS-070NEC	ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic	Nechanice/ Czech Republic	A: 31.05.2019 B: 21.06.2019 A: BBCH 37-39 B: BBCH 59-63	Spring barley/ Sebastian F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy clay loam pH 6.4
CZOR-SYT19-HORVS-042RYM	ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic	Rymarov/ Czech Republic	A: 13.06.2019 B: 04.07.2019 A: BBCH 37 B: BBCH 45-47	Spring barley/ Francin F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.4
CZOR-SYT19-HORVS-043RYM	ZS Nechanice, Štolbova 319, 503 15 Nechanice, Czech Republic	Rymarov/ Czech Republic	A: 13.06.2019 B: 04.07.2019 A: BBCH 37 B: BBCH 45-47	Spring barley/ Francin F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.4
SRCZ20-066-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Dobronice/ Czech Republic	A: 27.05.2020 B: 09.06.2020 A: BBCH 37-49 B: BBCH 56-61	Spring barley/ Laudis F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 6.2
SRCZ20-067-301FE	SynTech Research	Dobřínsko/ Czech	A: 27.05.2020	Spring barley/ KWS Amadora	Randomized blocks	Soil type: loam

	Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Republic	B: 15.06.2020 A: BBCH 39-49 B: BBCH 65-69	F N	EPPO PP 1/135 (4)	pH 6.5
SRCZ20-064-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Křepice/ Czech Republic	A: 21.05.2020 B: 04.06.2020 A: BBCH 34-39 B: BBCH 55-59	Spring barley/ Solist F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 6.2
CZOR-CPP20-HORVS-075SYT	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Dobřínko/ Czech Republic	A: 22.05.2020 B: 04.06.2020 A: BBCH 37-45 B: BBCH 49-55	Spring barley/ KWS Amadora F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 6.5
SRDE20-151-301FE	SynTech Research Germany Loofter Str. 9, 25593 Christenthal, Germany	Neudenu-Kressbach/ Germany	A: 15.05.2020 B: 18.06.2020 A: BBCH 29-37 B: BBCH 49-55	Spring barley/ Avalon F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay pH 7.1
CHR_F_PROTAZO20_EFF8_DE27	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Lüdersdorf/ Germany	A: 29.05.2020 B: 15.06.2020 A: BBCH 36-37 B: BBCH 58-61	Spring barley/ Planet F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.5
CHR_F_PROTAZO20_EFF8_DE28	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Niederbösa/ Germany	A: 27.05.2020 B: 09.06.2020 A: BBCH 31-34 B: BBCH 49-51	Spring barley/ Leandra F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clay loam pH
CHR_F_PROTAZO20_EFF8_DE29	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Wittighausen- Poppenhausen/ Germany	02.06.2020 BBCH 53	Spring barley/ Avalon F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 7.1
CHR_F_PROTAZO20_EFF8_DE30	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 –	Schonungen/ Germany	22.05.2020 BBCH 30-31	Spring barley/ Avalon F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: silt loam pH 7.1

	97359 Schwarzach, Germany					
SRPL19-301-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Murczyn/ Poland	A: 13.05.2019 B: 03.06.2019 A: BBCH 31-32 B: BBCH 43-45	Spring barley/ Extase	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.4
SRPL19-302-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Szamotuły/ Poland	A: 22.04.2019 B: 18.05.2019 A:BBCH 31-32 B: BBCH 43-51	Spring barley/ KWS Atrika F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.7
SRPL19-303-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Jabłowo Pałuckie/ Poland	A: 24.05.2019 B: 14.06.2019 A: BBCH 31-35 B: BBCH 41-45	Spring barley/ Kucyk F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clay sandy loam pH 8.3
SRPL19-304-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Teresin/ Poland	A: 20.05.2019 B: 03.06.2019 A: BBCH 33-37 B: BBCH 47-51	Spring barley/ Soldo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy clay loam pH 6.68
SRPL19-305-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Pokrzywno/ Poland	A: 10.05.2019 B: 31.05.2019 A: BBCH 32-33 B: BBCH 57-59	Spring barley/ Scorpion F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 6.3
SRPL19-306-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Jankowice Wielkie/ Poland	A: 01.05.2019 B: 22.05.2019 A: BBCH 32-37 B: BBCH 55-59	Spring barley/ Kucyk F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy clay pH 6.8
SRPL19-307-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Sarbka/Poland	A: 20.04.2019 B: 18.05.2019 A: BBCH 31-32 B: BBCH 37-39	Spring barley/ Antek F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.8
SRPL19-308-336FE	SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85- 027 Bydgoszcz, Poland	Jankowice Wielkie/ Poland	A: 01.05.2019 B: 22.05.2019 A: BBCH 32-37 B: BBCH 55-59	Spring barley/ Kucyk F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy clay pH 6.8

Notes:

(1): test report number

- (2): Trial responsible entity/ officially recognized organization
- (3): precise place of the trial followed by the country
- (4): Crop growth stage at application timing
- (5): F= field trial, G=protected crop, specify
- (6): N=Natural infestation, A= Artificial inoculation
- (7): Test guideline used

Table 8 – data from phytotoxicity trials – winter oilseed rape

Test report (1)	Testing Unit GEP (2)	Country Region (3)	Dates of trials and GS (4)	Cultivar F/G (5) N/A (6)	Experimental design Test method (7) Replicates	Remarks
A.T/2019/035/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Dębiniec / Poland	30.04.2019 BBCH 65-67	winter oilseed rape / Kuga F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.2
A.T/2019/036/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Lipka / Poland	13.05.2019 BBCH 65-67	winter oilseed rape / Hamilton F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.5
A.T/2019/037/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Lipka/Poland	25.04.2019 BBCH 60-61	Winter oilseed rape/Hamilton F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.5
A.T/2019/038/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Czarłomie/Poland	01.05.2019 BBCH 64-65	Winter oilseed rape/ Hamilton F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.3
A.T/2020/022/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Gaj Wielki/Poland	21.04.2020 BBCH 57-62	Winter oilseed rape/ Dominator F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.8
A.T/2020/023/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Łysomice/Poland	30.04.2020 BBCH 63-65	Winter oilseed rape/Bonanza F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.8
A.T/2020/024/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Gaj Wielki/Poland	03.05.2020 BBCH 65-67	Winter oilseed rape/Dominator F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.8
AF/20/RO/1/Pr/01	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul.	Przybroda / Poland	27.04.2020 BBCH 59-65	Winter oilseed rape / Harry F	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.1

	Wojska Polskiego 28, 60-637 Poznań, Poland			N		
AF/20/RO/1/Pr/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Przybroda / Poland	08.05.2020 BBCH 65-69	Winter oilseed rape / Harry F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.1
AF/20/RO/1/ZŁ/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Złotniki / Poland	08.05.2020 BBCH 65-69	winter oilseed rape/ Graf F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.5
SRCZ19-028-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Lustenice /Czech Republic	14.05.2019 BBCH 65-67	winter oilseed rape /Alicante F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH
SRCZ20-059-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Hořovice /Czech Republic	28.04.2020 BBCH 61-65	winter oilseed rape / LG Architect F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH
SRCZ20-060-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Luštěnice /Czech Republic	29.04.2020 BBCH 61-65	winter oilseed rape / DK Expansion F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: pH
SRCZ20-061-301FE	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Mikulovice /Czech Republic	08.05.2020 BBCH 65-67	winter oilseed rape / Arabela F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 6.2
SRDE20-110-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Langenbrettach /Germany	08.05.2020 BBCH 61-65	winter oilseed rape / Archipel F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay pH 7.3
SRDE20-111-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Roigheim /Germany	07.05.2020 BBCH 61-65	winter oilseed rape / Archipel F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay pH 6.7
SRDE20-112-301FE	SynTech Research Germany, Loofter Str. 9,25593	Langenbrettach /Germany	12.05.2020	winter oilseed rape / ES Vito	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay pH 7.5

	Christinenthal, Germany		BBCH 65-69	F N		
SRDE20-113-301FE	SynTech Research Germany, Loofter Str. 9,25593 Christinenthal, Germany	Roigheim /Germany	12.05.2020 BBCH 65-69	winter oilseed rape / Archipel F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: silty clay pH 6.7
CHR_F_PROTAZO20_EFF06_DE23	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Grieben /Germany	24.04.2020 BBCH 61-65	winter oilseed rape / Alvaro F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.4
CHR_F_PROTAZO20_EFF07_DE24	Hetterich Fieldwork GbR, Ingenieurbüro für landwirtschaftliche Feldversuche, Bamberger Straße 50 – 97359 Schwarzach, Germany	Siemitz /Germany	11.05.2020 BBCH 63-67	winter oilseed rape / Horace F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.3
CZOR-SYT19-BRSNN-088KUJ	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Repubilc	Kujavy /Czech Republic	07.05.2019 BBCH 65	winter oilseed rape /DK Exstorm F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loam pH 5.9

Notes:

- (1): test report number
- (2): Trial responsible entity/ officially recognized organization
- (3): precise place of the trial followed by the country
- (4): Crop growth stage at application timing
- (5): F= field trial, G=protected crop, specify
- (6): N=Natural infestation, A= Artificial inoculation
- (7): Test guideline used

Appendix 7 Summary of available studies: Adverse effects on beneficial organisms

None

Appendix 8 Summary of data on succeeding crop

None