

## **Identification and updating data of eligible AEGIS accessions in both wheat and rye species**

**(TRIticum and SECa in AEGIS = TRISECA)**

**January 2017 – January 2018**

Gergana Desheva, Emmanuelle Escarnot, Agnese Gailīte, Pavol Haupvogel,  
Jirí Hermuth, Zoran Jovović, Ludmila Papoušková, Agata Rascio, Silvia Strājeru,  
Marcin Zaczyński, Marta Zavrelová and François Balfourier



**March 2018**

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### INTRODUCTION

The Wheat Working Group (WWG) is not only involved in wheat but also in rye genetic resources, as both species can be crossed together to produce triticale. At the end of 2016, thanks to previous activities of the WWG (mainly the [TRAID Activity](#) in 2015), a total of 6484 accessions of *Triticum* sp. were flagged as AEGIS accessions in EURISCO; from these 6484 accessions, there was a majority of hexaploid species (5474 *T. aestivum*) but only few tetraploid and diploid species (for instance, only 151 *T. durum* and 60 *T. turgidum*). At the same time, only 146 *Secale* accessions (106 from Nordic countries and 36 from Czech Republic) were flagged as AEGIS accessions.

In the present [TRISECA Activity](#), ECPGR members from 10 different countries planned to carry on the AEGIS initiative, by building a more representative European collection of both wheat and rye species. For *Triticum*, the effort was mainly focused on tetraploid species which are also very important species, in terms of diversity, for durum wheat improvement. All selected accessions, which were not yet well documented in terms of C&E data, were sown in the field for evaluation.

### METHODOLOGY AND APPROACH USED IN THE TRISECA ACTIVITY

The workplan of this Activity was the same as in the previous TRAID Activity, on a period of 16 months, for the period from September 2016 to January 2018.

- 1) Identification of eligible accessions to be proposed as AEGIS accessions according to the 'Revised simplified procedure for the selection and flagging of accessions for the European Collection'
- 2) Updating of both passport and characterization and evaluation (C&E) data, according to the Multi-crop Passport Descriptor v2 list and the C&E descriptors used in appropriate databases.
- 3) A common 2-3 days meeting to check and approve proper documentation, then to discuss about rules of management of these accessions in accordance with the principle of AEGIS.
- 4) A final interaction with National Focal Points (NFPs) in order to flag AEGIS accessions in EURISCO.

For wheat species, the identification of eligible accessions was realized by choosing accessions within the list of European Wheat Database (EWDB) accessions provided by Ludmila Papoušková, the EWDB manager (<http://genbank.vurv.cz/ewdb/>). In the same way the identification for rye species was realized with the help of Marcin Zaczynski, manager of the Central Crop Database for *Secale* (<http://secale.ihar.edu.pl>). This database and EURISCO were useful tools for editing lists of eligible rye accessions per country members.

After identification of proper eligible accessions in September 2016, each partner had to sow the part of his own accessions which needed to be updated for C&E descriptors. The sowing was performed in autumn 2016 or in spring 2017 according to the type of development of the accessions. The updating of both passport data and C&E data was carried out by each participant under the supervision of François Balfourier, Chair of the WWG in spring 2017.

A common 2-3 days meeting was organized in Poland in October 2017 with all participants, during which the datasets of all selected accessions were presented, definitely checked and approved by concerned WWG members. The management of these accessions in accordance with the principles of AEGIS was also discussed.

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Then, each participant in this Activity had to provide his/her National Coordinator with the list of recommended accessions for consideration and formal inclusion in the AEGIS European Collection. Finally, the EURISCO National Inventory Focal Point, under instructions from the National Coordinator, had to officially include the accessions into the European Collection by flagging them in EURISCO (winter 2017).

## RESULTS

### 1. Identification of eligible accessions to be proposed as AEGIS accessions

Table 1 (page 5) indicates the number of candidate accessions identified per partner within the TRISECA Activity. A total of 885 accessions were retained, divided in 350 rye and 535 wheat accessions. According to the objectives defined at the beginning of the Activity, half of the wheat accessions (266/535) were chosen within tetraploid species. Table 2 (page 6) gives the status of these accessions (SAMPSTAT descriptor); due to rye accessions status (mainly semi-natural populations), we observe a majority of traditional cultivars or landraces.

### 2. Establishment of proper documentation of AEGIS accessions

#### a) Passport data

The documentation status for passport data of selected candidate accessions are given in Tables 3 and 4 (pages 7 and 8), for wheat and rye respectively. For both species, a majority of mandatory descriptors, and in particular ORIGICTY and SAMPSTAT, are well documented. The low availability of data concerning collection site (LATITUDE, LONGITUDE, ..) can be explained by the fact that few accessions are true landraces or collected on a known locality which can be related to such data. Optional descriptors such as GR-CLAS, PLOIDY, REG\_YEAR will be useful for future collection description. The full set of accessions is now globally well documented for passport data, according to the MCPD v2 list (see Excel file for [Passport data](#), available online [here](#)).

#### b) Characterization and evaluation data

As indicated in Table 5 (page 9) for wheat, the whole set of accessions is not so well documented for characterization and evaluation data, which can be explained by the fact that some members of the TRISECA project started defining their candidate accessions only at the beginning of the Activity. Nevertheless, among the mandatory descriptors, some traits such as “plant height” and “kernel weight” are well documented, while descriptors related to grain and spike morphology still need some effort of characterization. Results concerning optional descriptors are variable but significant for some traits, depending on disease infestation during the characterization (see Excel file for [C&E data](#), available online [here](#)).

Results for rye are given in Table 6 (page 10). For this species, the numbers of accessions per country may be different when compared to those of passport data. This may be explained by the fact that some members (Czech Republic and Romania) were not able to evaluate all their accessions in the field during 2017, while another (Poland) gave multiple results (different evaluation years) for a same accession. Consequently, even if only 350 rye accessions were used in TRISECA, evaluation data were obtained on an overall number of 709 “accessions”. Except for ‘protein content’, most of the mandatory descriptors are well documented.

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## Identification and updating data of eligible AEGIS accessions in both wheat and rye species

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## DISCUSSION AND RECOMMENDATIONS

The meeting discussed the representativity of the full AEGIS wheat collection and studied carefully the possible gaps within passport and C&E data. The appendix 2 of the AEGIS Memorandum of Understanding (MoU) concerning rules of management of the accessions in accordance with the principle of AEGIS was recalled. In particular, the sovereign right of each country member to decide which accessions have to be included in the AEGIS collection was confirmed. However, the WWG Chair asked all members to suppress accessions lacking data for mandatory descriptors (such as SAMPSTAT) and possible redundant sister lines within breeding lines, as suggested in the selection requirements approved by the Steering Committee, to avoid possible redundant material. In the same way, members were invited to check that proposed accessions were free of any third party obligation in terms of access rights, to complete as far as possible mandatory descriptors, and to check some mistakes in the scales for some of these descriptors.

All members were invited to send final reviewed lists of accessions, together with passport data and C&E data to F. Balfourier, Chair of the WWG, for final computation before sending them to L. Papoušková and Marcin Zaczyński, in order to be marked and updated in the EWDB and *Secale* databases, respectively. The results given in tables of the present report correspond to this final compilation performed after the meeting. Finally each partner has undertaken (i) to provide his/her National Coordinator with the list of recommended accessions for consideration and formal inclusion in the European Collection, (ii) then to check that the EURISCO National Inventory Focal Point, under instruction from the National Coordinator, has officially included the accessions into the European Collection by flagging them in EURISCO. The current status of the AEGIS wheat and rye collection at the time of reporting is given in Table 7 (page 11) for each member country. By 15 March 2018, a total of 267 new accessions were effectively flagged as AEGIS accessions in EURISCO, while 618 were pending.

The second day of the meeting was dedicated to discussing the management of this AEGIS wheat collection and the future agenda of the TRISECA project until the end of 2017. Considering safety duplication, it was reminded that safety-duplicates of AEGIS accessions should be sent to another Associate Member genebank, possibly in a different country and/or to the Svalbard Global Seed Vault. Members who have not started to develop duplicates were invited to do so.

Finally, new activities of the Wheat Working Group were proposed and considered in order to prepare the future calls for proposals under the ECPGR Grant Scheme. Four possible future activities were discussed: (i) to evaluate the grain shape (width, length) on TRISECA accessions by using Optomachine, as presented by the French member; (ii) to develop a training course on identification of botanical classification in *Triticum* species in relationship with the botany specialist from N.I. Vavilov Research Institute of Plant Industry (VIR); (iii) to reduce gaps in AEGIS accessions by introducing new geographical origins; and (iv) to define the state of the art concerning *Aegilops* species conserved in the different genebanks.

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**Table 1. Number of AEGIS candidate accessions defined per WWG members**

Country	INSTCODE (*)	No. of accessions				Total
		<i>Triticum species (6x)</i>	<i>Triticum species (4x)</i>	<i>Triticum species (2x)</i>	<i>Secale cereale</i>	
Belgium	BEL001	87				87
Bulgaria	BGR001	7	26	32	15	80
Czech Republic	CZE122	17			36	53
France	FRA040	11	159	13	50	233
Italy	ITA079		14			14
Latvia	LVA009				6	6
Montenegro	MNE001	6	20		5	31
Poland	POL003	8	12		141	161
Romania	ROM007		12	44	72	128
Slovakia	SVK001	30	23	14	25	92
<b>Total</b>		<b>166</b>	<b>266</b>	<b>103</b>	<b>350</b>	<b>885</b>

(\*) Decoded institute names:

BEL001	CRA-W Centre Wallon de Recherche Agronomique, Gembloux
BGR001	Institute for Plant Genetic Resources K. Malkov', Sadovo
CZE122	Crop Research Institute, Prague
FRA040	INRA Genetic Diversity and Ecophysiology of Cereals, Clermont-Ferrand
ITA079	CREA-CI Centro di Ricerca per la Cerealicoltura e le Colture Industriali, Foggia
LVA009	Latvian State Forest Research Institute 'Silava'
MNE001	University of Montenegro, Biotechnical faculty, Podgorica
POL003	Plant Breeding and Acclimatization Institute, Radzików
ROM007	Suceava Genebank
SVK001	Plant Production Research Center Piešťany



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**Table 2. Sample status of AEGIS candidate accessions per WWG members**

Country	No. of accessions					Total
	Traditional cultivars / landraces	Breeders' lines	Advanced/ improved cultivars	Other	Unknown	
Belgium	87					87
Bulgaria	39	4			37	80
Czech Republic	4		49			53
France	142		91			233
Italy	14					14
Latvia			4	2		6
Montenegro	31					31
Poland	114	24	23			161
Romania	110	14		4		128
Slovakia	26	21	17	5	23	92
<b>Total</b>	<b>567</b>	<b>63</b>	<b>184</b>	<b>11</b>	<b>60</b>	<b>885</b>



## Identification and updating data of eligible AEGIS accessions in both wheat and rye species

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**Table 3. Number of wheat selected candidate accessions per WWG members and documentation status of related passport data**

(see Excel file TOTAL-TRISECA-rye and wheat passport-data, available online [here](#))

Note:

- country codes: ISO alpha-3
- mandatory descriptors are in green and optional ones are in orange
- x = important descriptor; xx = highly important descriptor

	BEL	BGR	CZE	FRA	ITA	MNE	ROM	SVK	POL	total	%	MANDATORY descriptor			
												all acc.	Land.	wild	cultivar
Nbr of acces	87	65	17	183	14	26	56	67	20	535					
INSTCODE	87	65	17	183	14	26	56	67	20	535	100.0	INSTCODE	xx		
ACCENUMB	87	65	17	183	14	26	56	67	20	535	100.0	ACCENUMB	xx	x	
COLLNUMB	87	0	0	0	0	26	56	40	18	227	42.4	COLLNUMB		x	xx
COLLCODE	87	27	0	0	0	26	56	46	0	242	45.2	COLLCODE			xx
GENUS	87	65	17	183	14	26	56	67	20	535	100.0	GENUS	xx		
SPECIES	87	65	17	183	14	26	56	67	20	535	100.0	SPECIES	xx		
SPAUTHOR	87	65	17	183	14	26	56	66	20	534	99.8	SPAUTHOR	x		
SUBTAXA	27	65	17	170	14	6	56	2	18	375	70.1	SUBTAXA			
SUBTAUTHO	0	55	0	122	0	0	56	2	14	249	46.5	SUBTAUTHOR			
CROPNAME	87	65	17	147	14	26	56	67	0	479	89.5	CROPNAME			
ACCENAME	87	56	17	183	14	26	56	67	16	522	97.6	ACCENAME			
ACQDATE	87	65	17	181	14	26	56	62	20	528	98.7	ACQDATE			
ORIGCTY	87	65	17	183	14	26	56	67	20	535	100.0	ORIGCTY	xx		
COLLSITE	59	27	1	0	14	26	44	23	0	194	36.3	COLLSITE		x	xx
LATITUDE	59	26	0	0	0	26	44	22	0	177	33.1	LATITUDE		x	xx
LONGITUDE	59	26	0	0	0	26	44	22	0	177	33.1	LONGITUDE		x	xx
ELEVATION	59	26	1	0	0	26	44	22	0	178	33.3	ELEVATION		x	xx
COLLDATE	0	27	1	0	0	26	14	44	0	112	20.9	COLLDATE		x	xx
BREDCODE	87	0	15	84	0	0	55	17	0	258	48.2	BREDCODE			x
SAMPSTAT	87	32	17	183	14	26	56	67	19	501	93.6	SAMPSTAT	xx		
ANCEST	0	0	12	74	14	0	56	16	0	172	32.1	ANCEST			x
COLLSRC	87	32	0	0	14	26	56	67	0	282	52.7	COLLSRC		x	xx
DONORCODE	0	1	16	151	13	0	56	29	0	266	49.7	DONORCODE	x		
DONORNUM	0	26	0	79	0	0	56	0	0	161	30.1	DONORNUM	x		
OTHERNUM	0	65	8	149	14	0	55	0	0	291	54.4	OTHERNUM	x		
DUPLICITE	0	0	16	183	9	26	0	0	0	234	43.7	DUPLICITE	x		
STORAGE	87	65	17	183	14	26	56	49	19	516	96.4	STORAGE			
MLSSTAT	87	65	17	183	13	0	56	67	0	488	91.2	MLSSTAT			
REMARK	0	49	0	0	14	26	48	46	0	183	34.2	REMARK			
GR_CLASS	87	65	17	0	0	0	0	67	0	236	44.1	GR_CLASS			
PLOIDY	87	65	17	183	14	0	0	66	0	432	80.7	PLOIDY			
REG_YEAR	0	65	1	84	0	0	0	9	0	159	29.7	REG_YEAR			x
SYNONYM	0	0	1	0	0	0	0	0	0	1	0.2	SYNONYM			
EXP_CODE	0	0	1	0	0	0	0	3	0	4	0.7	EXP_CODE			
SITE_DES	0	0	0	0	0	0	0	3	0	3	0.6	SITE_DES			
HERBAR	0	65	17	183	14	0	0	24	0	303	56.6	HERBAR			
PRINC_ATTR	0	65	0	0	0	0	0	67	0	132	24.7	PRINC_ATTR			
ENTRY_DATE	0	0	0	0	0	0	0	0	0	0	0.0	ENTRY_DATE			
MAN_CENTR	0	37	0	183	0	0	0	0	0	220	41.1	MAN_CENTER			
AVAILAB	0	65	17	183	14	0	0	67	0	346	64.7	AVAILAB			
AEGISSTAT	0	0	17	183	14	0	0	67	0	281	52.5	AEGISSTAT			

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**Table 4. Number of rye selected candidate accessions per WWG members and documentation status of related passport data**

(see Excel file TOTAL-TRISECA-rye and wheat passport-data, available online [here](#))

Note:

- country codes: ISO alpha-3

- mandatory descriptors are in green and optional ones are in orange

- **x** = important descriptor; **xx** = highly important descriptor

	BGR	CZE	FRA	LVA	MNE	ROM	SVK	POL	total	%	MANDATORY descriptor			
											all acc.	Land.	wild	cultivar
Nbr of access	15	36	50	6	5	72	25	141	350					
INSTCODE	15	36	50	6	5	72	25	141	350	100.0	INSTCODE	xx		
ACCENUMB	15	36	50	6	5	72	25	141	350	100.0	ACCENUMB	xx	x	
COLLNUMB	0	0	0	0	5	72	20	141	238	68.0	COLLNUMB		x	xx
COLLCODE	0	0	0	0	5	72	20	17	114	32.6	COLLCODE			xx
GENUS	15	36	50	6	5	72	25	141	350	100.0	GENUS	xx		
SPECIES	15	36	50	6	5	72	25	141	350	100.0	SPECIES	xx		
SPAUTHOR	15	36	50	6	5	72	25	141	350	100.0	SPAUTHOR	x		
SUBTAXA	15	36	0	0	0	72	3	0	126	36.0	SUBTAXA			
SUBTAUTHO	15	4	0	0	0	72	3	0	94	26.9	SUBTAUTHOR			
CROPNAME	15	36	50	6	5	72	25	0	209	59.7	CROPNAME			
ACCENAME	14	36	50	6	5	72	25	141	349	99.7	ACCENAME			
ACQDATE	15	34	50	6	5	72	20	141	343	98.0	ACQDATE			
ORIGCTY	15	36	50	6	5	72	25	141	350	100.0	ORIGCTY	xx		
COLLSITE	13	0	0	0	5	72	15	60	165	47.1	COLLSITE		x	xx
LATITUDE	13	0	0	0	5	72	7	74	171	48.9	LATITUDE		x	xx
LONGITUDE	13	0	0	0	5	72	7	74	171	48.9	LONGITUDE		x	xx
ELEVATION	13	0	0	0	5	72	10	57	157	44.9	ELEVATION		x	xx
COLLDATE	13	0	0	0	5	72	20	17	127	36.3	COLLDATE		x	xx
BREDCODE	1	13	2	4	0	72	2	11	105	30.0	BREDCODE			x
SAMPSTAT	15	36	50	6	5	72	25	141	350	100.0	SAMPSTAT	xx		
ANCEST	1	33	5	4	0	72	2	12	129	36.9	ANCEST			x
COLLSRC	13	13	0	6	5	72	25	14	148	42.3	COLLSRC		x	xx
DONORCODE	0	6	39	6	0	72	21	34	178	50.9	DONORCODE	x		
DONORNUM	0	4	2	0	0	72	17	0	95	27.1	DONORNUM	x		
OTHERNUM	15	28	50	0	0	72	15	1	181	51.7	OTHERNUM	x		
DUPLICITE	13	36	50	6	5	0	17	0	127	36.3	DUPLICITE	x		
STORAGE	15	36	50	6	5	72	23	141	348	99.4	STORAGE			
MLSSTAT	15	36	50	6	0	72	25	141	345	98.6	MLSSTAT			
REMARK	0	0	0	2	5	72	23	63	165	47.1	REMARK			
GR_CLASS	15	36	0	6	0	0	25	0	82	23.4	GR_CLASS			
PLOIDY	15	36	0	6	0	0	11	0	68	19.4	PLOIDY			
REG_YEAR	0	20	0	4	0	0	1	0	25	7.1	REG_YEAR			x
SYNONYM	0	4	0	0	0	0	0	0	4	1.1	SYNONYM			
EXP_CODE	0	0	0	0	0	0	20	0	20	5.7	EXP_CODE			
SITE_DES	0	0	0	0	0	0	16	0	16	4.6	SITE_DES			
HERBAR	15	8	50	6	0	0	19	0	98	28.0	HERBAR			
PRINC_ATTR	15	0	0	0	0	0	25	0	40	11.4	PRINC_ATTR			
ENTRY_DATE	0	0	0	0	0	0	0	0	0	0.0	ENTRY_DATE			
MAN_CENTE	14	0	50	0	0	0	0	0	64	18.3	MAN_CENTER			
AVAILAB	15	36	50	6	0	0	25	0	132	37.7	AVAILAB			
AEGISSTAT	0	36	50	0	0	0	25	0	111	31.7	AEGISSTAT			

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**Table 5. Number of wheat selected candidate accessions per WWG members and documentation status of related characterization and evaluation data**

(see Excel file TOTAL TRISECA– Wheat-C&Edata, available online [here](#)).

	BEL	BGR	CZE	FRA	ITA	MNE	ROM	SVK	POL	total	%	
Nbr of accessions	87	65	17	183	14	0	29	67	28	490		
ACCENUMB	87	65	17	183	14	0	29	67	28	490	100.0	ACCENUMB
ACCENAME	87	56	17	183	14	0	29	67	23	476	97.1	ACCENAME
<b>II/I AWNEDNESS</b>	87	65	17	183	14	0	29	21	1	417	85.1	<b>II/I AWNEDNESS</b>
<b>II/2 GRAIN COLOUR</b>	87	65	0	181	14	0	29	3	2	381	77.8	<b>II/2 GRAIN COLOUR</b>
<b>II/3 GLUME COLOUR</b>	87	65	0	183	14	0	29	27	6	411	83.9	<b>II/3 GLUME COLOUR</b>
<b>II/4 GLUME HAIRINESS</b>	87	65	17	183	0	0	29	26	0	407	83.1	<b>II/4 GLUME HAIRINESS</b>
<b>II/5 SPIKE DENSITY</b>	87	65	16	183	14	0	29	0	0	394	80.4	<b>II/5 SPIKE DENSITY</b>
<b>II/6 PLANT HEIGHT</b>	87	65	16	183	14	0	29	4	27	425	86.7	<b>II/6 PLANT HEIGHT</b>
<b>II/7 1000- KERNEL</b>	87	65	16	180	14	0	29	4	20	415	84.7	<b>II/7 1000- KERNEL</b>
<b>II/8 PROTEIN CONTENT</b>	0	41	16	0	0	0	21	0	0	78	15.9	<b>II/8 PROTEIN CONTENT</b>
<b>II/9 PRINCIPAL UTILIZATION</b>	0	65	0	0	14	0	23	0	0	102	20.8	<b>II/9 PRINCIPAL UTILIZATION</b>
<b>II/10 YIELD LEVEL</b>	0	65	0	0	14	0	0	0	0	79	16.1	<b>II/10 YIELD LEVEL</b>
<b>II/11 LODGING INTENSITY</b>	87	65	16	183	0	0	0	4	28	383	78.2	<b>II/11 LODGING INTENSITY</b>
<b>II/12 S TO STEM RUST</b>	0	0	16	159	0	0	29	0	0	204	41.6	<b>II/12 S TO STEM RUST</b>
<b>II/13 S TO STRIPE RUST</b>	87	65	16	159	0	0	29	4	2	362	73.9	<b>II/13 S TO STRIPE RUST</b>
<b>II/14 S TO LEAF RUST</b>	87	65	0	159	0	0	29	4	9	353	72.0	<b>II/14 S TO LEAF RUST</b>
<b>II/15 S TO POWDERY</b>	87	0	16	159	0	0	29	4	9	304	62.0	<b>II/15 S TO POWDERY</b>
<b>II/16 S TO LEAF BLOTCH</b>	87	0	0	159	0	0	0	4	6	256	52.2	<b>II/16 S TO LEAF BLOTCH</b>
<b>II/17 S TO GLUME</b>	0	0	0	0	0	0	0	0	0	0	0.0	<b>II/17 S TO GLUME</b>
<b>II/18 S TO HEAD BLIGHT</b>	0	37	0	0	0	0	0	4	5	46	9.4	<b>II/18 S TO HEAD BLIGHT</b>
<b>II/19 S TO EYESPOT</b>	0	0	0	0	0	0	0	0	0	0	0.0	<b>II/19 S TO EYESPOT</b>
<b>II/20 S TO TAKE-ALL</b>	0	0	0	0	0	0	0	0	0	0	0.0	<b>II/20 S TO TAKE-ALL</b>
<b>II/21 S TO TAN SPOT</b>	0	0	0	0	0	0	0	0	0	0	0.0	<b>II/21 S TO TAN SPOT</b>
<b>II/22 Zeleny Test</b>	0	33	16	0	0	0	0	0	0	49	10.0	<b>II/22 Zeleny Test</b>

**Identification and updating data of eligible AEGIS accessions  
in both wheat and rye species**

**(TRIticum and SECale in AEGIS = TRISECA)**

**Activity Report**

**Table 6. Number of rye selected candidate accessions per WWG members and documentation status of related characterization and evaluation data**

(see Excel file TOTAL TRISECA– Rye-C&Edata, available online [here](#)).

	BGR	CZE	FRA	LVA	MNE	ROM	SVK	POL	total	%
<b>Nbr of accessions</b>	15	20/36	50	6		15/72	25	578	709	
<b>ACCENUMB</b>	15	20	50	6		15	25	578	709	100.0
<b>ACCENAME</b>	14	20	50	6		15	25	577	707	99.7
<b>1-COUNTRY</b>	15	20	50	6		15	25	0	131	18.5
<b>2-YEAR</b>	15	20	50	6		15	25	578	709	100.0
<b>3-GROWTH</b>	15	20	50	6		15	25	578	709	100.0
<b>4-PLANT HEIGHT (clas)</b>	15	20	50	6		0	3	565	659	92.9
<b>5-PLANT HEIGHT (cm)</b>	15	20	50	6		0	3	565	659	92.9
<b>POWDERY MILDEW RESISTANCE</b>	15	20	50	5		15	3	413	521	73.5
<b>7-STEM RUST RESISTANCE</b>	0	20	50	0		0	3	0	73	10.3
<b>8-LEAF RUST RESISTANCE</b>	15	20	50	5		15	0	416	521	73.5
<b>9-FUSARIUM RESISTANCE</b>	15	1	50	0		0	1	0	67	9.4
<b>10-EYESPOT RESISTANCE</b>	0	1	0	0		0	0	0	1	0.1
<b>11-1000 KERNEL WEIGHT (clas)</b>	15	1	50	6		15	3	433	523	73.8
<b>12-1000 KERNEL WEIGHT (g)</b>	15	20	50	6		15	3	433	542	76.4
<b>13-PROTEIN CONTENT</b>	15	20	0	6		0	2	0	43	6.1

**Identification and updating data of eligible AEGIS accessions  
in both wheat and rye species**

(TRIticum and SECale in AEGIS = TRISECA)

**Activity Report**

**Table 7. Current status of the AEGIS collection in the Wheat Working Group, after completion of the TRISECA Activity (updated 15 March 2018)**

Country	Passport and C&E data updated in EWDB	NC approves list of candidates accessions	NFP updates EURISCO database	No. of new accessions flagged as AEGIS in EURISCO (15 March 2018)
Belgium	☑	☑	Pending	
Bulgaria	☑	☑	☑	80
Czech Republic	☑	☑	☑	53
France	☑	☑	Pending (MoU has to be signed first)	
Italy	☑	☑	Pending	
Latvia	☑	☑	☑	6
Montenegro	☑	Pending	Pending	
Poland	☑	☑	☑	Pending
Romania	☑	☑	☑	128
Slovakia	Pending	Pending	Pending	
<b>Total</b>				<b>267</b>