

Status of AEGIS candidate collection

Number of AEGIS accessions per country of origin

ECPG Activity	ORIGCT Y	T. aestivum (6X)	T.spelta (6X)	tetraploid wheat species (4X)	T.monococcum (2X)	Secale cereale
TRAID	BGR	135	-	126	-	-
TRISECA	BGR	-	7	26	32	15

Status of sample in AEGIS collection

SAMPSTAT	Triticum aestivum (6X)	Triticum durum (4X)	Total	Triticum dicoccon (4x)	Triticum spelta (6x)	Triticum monococcum (2x)	Secale cereale	Total
	TRAID			TRISECA				
Traditionnal cultivar/landrace	-	123	123	-	-	29	13	42
Breeding line	47	-	47	3	-	-	1	4
Advanced/improved cultivar	88	3	91	-	-	-	1	1
unknown	-	-		23	7	3	-	33
Total	135	126	261	26	7	32	15	80

TRISECA Meeting

3-4 October 2017, Radzikow, Poland



European
Cooperative
Programme
for Plant
Genetic
Resources



ECP/GR

Summary of passeport data (MCPD v2)

Country	Number of AEGIS accessions	INSTCODE	ACCENUMB	COLLNUMB
Bulgaria	80	100%	100%	0%
COLLCODE	GENUS	SPECIES	SPAUTHOR	SUBTAXA
33,75%	100%	100%	100%	100%
SUBTAUTHOR	CROPNAME	ACCENAME	ACQDATE	ORIGCTY
87,5%	100%	87,5%	100%	60%
COLLSITE	LATITUDE	LONGITUDE	ELEVATION	COLLDATE
97,43%	97,43%	97,43%	97,43%	100%
BREDCODE	SAMPSTAT	ANCEST	COLLSRC	DONORCODE
20%	58,75%	20%	100%	1,25%
DONORNUMB	OTHERNUMB	DUPLSITE	STORAGE	MLSSTAT
32,5%	100%	16,25%	100%	100%
REMARKS	GR_CLASS	PLOIDY	REG_YEAR	SYNONYM_
61,25%	100%	100%	81,25%	0%
EXP_CODE	SITE_DES	HERBAR_	PRINC_ATTR	ENTRY_DATE
0%	0%	100%	100%	0%
MAN_CENTER	AVAILAB	AEGISSTAT		
36,25%	100%	0%		

MANDATORY
OPTIONAL

TRISECA Meeting

3-4 October 2017, Radzikow, Poland



European
Cooperative
Programme
for Plant
Genetic
Resources



ECP/GR

Summary of Characterisation & Evaluation data

Country	Number of AEGIS accessions	II/I AWNEDNESS	II/2 GRAIN COLOUR
Bulgaria	80	100%	100%
II/3 GLUME COLOUR	II/4 GLUME HAIRINESS	II/5 SPIKE DENSITY	II/6 PLANT HEIGHT
100%	100%	100%	100%
II/7 1000-KERNEL WEIGHT	II/8 PROTEIN CONTENT	II/9 PRINCIPAL UTILIZATION	II/10 YIELD LEVEL
100%	51,25%	100%	100%
II/11 LODGING INTENSITY	II/12 S TO STEM RUST	II/13 S TO STRIPE RUST	II/14 S TO LEAF RUST
100%	0%	100%	100%
II/15 S TO POWDERY MILDEW	II/16 S TO LEAF BLOTCH	II/17 S TO GLUME BLOTCH	II/18 S TO HEAD BLIGHT
0%	0%	0%	46,25%
II/19 S TO EYESPOT	II/20 S TO TAKE-ALL	II/21 S TO TAN SPOT	II/22 ZELENY TEST
0%	0%	0%	41,25%

Summary of Rye C&E data

Institute code	Nbr of Aegis accessions	1- Country of Characterisation	2-Year of Characterisation
BGR001	15	100%	100%
3-Growth class	4-Plant height (class)	5-Plant height (cm)	6- Powdery mildew resistance
100%	100%	100%	100%
7- Stem rust resistance	8-Leaf rust resistance	9- Fusarium resistance	10- Eyespot resistance
0%	100%	100%	0%
11- TKW (class)	12-TKW (g)	13- Grain protein content	
100%	100%	100%	

Diversity within the AEGIS collection

Nº	Genus	Species	Subspecies	Number of accessions
1	Triticum	dicoccon	var. farrum	6
2	Triticum	dicoccon	var. pycnurum	5
3	Triticum	dicoccon	var. compactomiegei	2
4	Triticum	dicoccon	var. rufum	2
5	Triticum	dicoccon	var. tricoccum	2
6	Triticum	dicoccon	var. alboliquiliforme	1
7	Triticum	dicoccon	var. fictesemicanum	1
8	Triticum	dicoccon	var. immaturum	1
9	Triticum	dicoccon	var. nigrocyar	1
10	Triticum	dicoccon	var. novicium	1
11	Triticum	dicoccon	var. pseudomacratherum	1
12	Triticum	dicoccon	var. pseudopraecox	1
13	Triticum	dicoccon	var. subfarrum	1
14	Triticum	dicoccon	var. vitic	1

Nº	Genus	Species	Subspecies	Number of accessions
1	Triticum	monococcum	var. boeoticum	22
2	Triticum	monococcum	var. laetissimum	4
3	Triticum	monococcum	var. vulgare	3
4	Triticum	monococcum	var. atriaristatum	1
5	Triticum	monococcum	var. sofianum	1
6	Triticum	monococcum	var. flavescens	1



Triticum monococcum var. *flavescens* Koern.



Triticum monococcum var. *atriaristatum* Flaksb.



Triticum monococcum var. *sofianum* Stransk.

Nº	Genus	Species	Subspecies	Number of accessions
1	Triticum	spelta	var. arduini	2
2	Triticum	spelta	var. duhamelianum	2
3	Triticum	spelta	var. album	1
4	Triticum	spelta	var. alefeldii	1
5	Triticum	spelta	var. asialbispicatum	1

BGR001

Morphological diversity of spike within the emmer collection



Triticum dicoccon var. *farrum*
Flaksb.



Triticum dicoccon var. *rufum*
Schuebl.



Triticum dicoccon var. *fictesemicanum*
Flaksb.



Triticum dicoccon var. *atratum*
(Host) Koern.



Triticum dicoccon var. *tricoccum* (Schuebl.) Koern.



Triticum dicoccon var. *novicium*
Koern.



Triticum dicoccon var. *pseudopraecox*
Palm. et Jakubz.



Triticum dicoccon var. *compactomegei*
Flaksb



Triticum dicoccon var. *nigrocyar*



Triticum dicoccon var. *pycnurum*



Triticum dicoccon var. *vitic*

TRISECA Meeting

3-4 October 2017, Radzikow, Poland



European
Cooperative
Programme
for Plant
Genetic
Resources



ECP/GR

BGR001 Diversity within the AEGIS collection

The basic statistics of the main descriptive characteristics in 26 accessions of *Triticum dicoccon* (Schrank) Schübl. in 2017

Characters	Minimum	Maximum	Mean	Std. Deviation	Variance	CV,%
Plant height, cm	122,73	162,10	136,68	9,06	82,07	6,63
Total number of tillers per plant	9,07	23,80	15,54	3,82	14,62	24,61
Number of productive tillers per plant	7,53	15,00	11,15	2,28	5,19	20,44
Spike length with awn, cm	12,62	24,22	17,35	2,94	8,64	16,95
Spike length without awn, cm	6,15	14,95	10,30	2,27	5,16	22,06
Number of spikelets per spike	24,80	33,40	29,31	2,31	5,33	7,87
Grain weight per spike, g	0,59	2,12	1,46	0,42	,18	28,99
Number of grains per spike	18,87	66,70	45,25	10,42	108,48	23,02
Grain weight per plant, g	1,53	12,50	8,31	2,50	6,24	30,05
Thousand grain weight, g	16,26	43,77	31,57	6,77	45,82	21,44

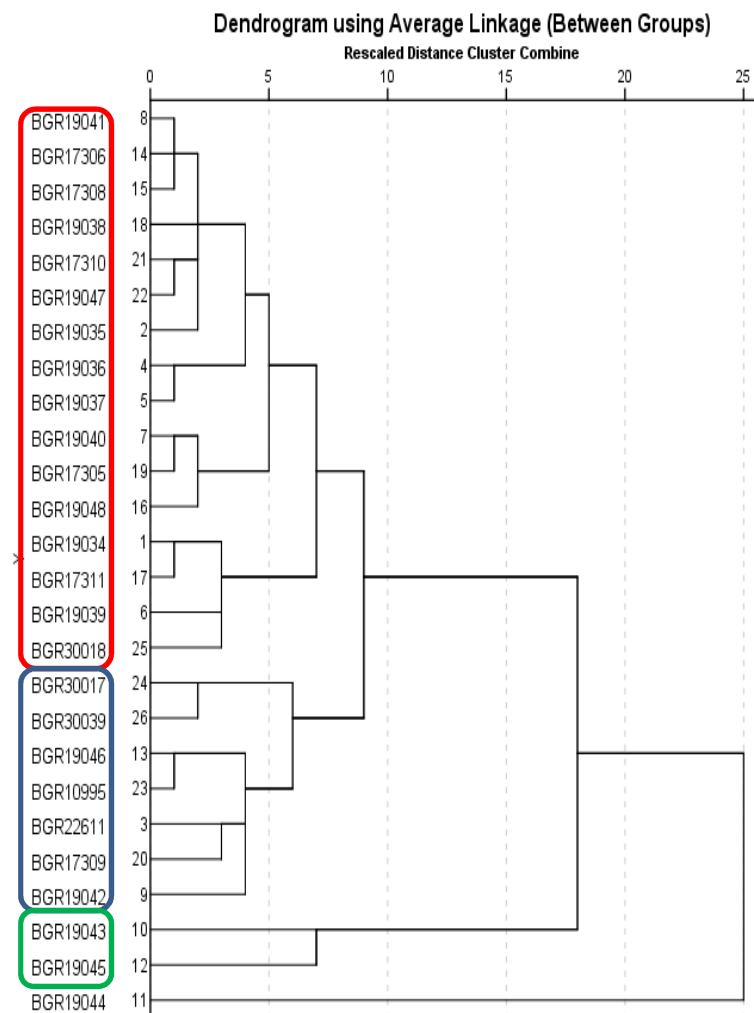


Figure 1. Tree diagram of 26 emmer genotypes for 10 studied variables using hierarchical cluster analysis (Between groups linkage method and Squared Euclidean distance)