CZE122

Status of AEGIS collection - wheat

Total - 467 accessions (329 winter; 116 spring; 22 intermediate)

Number of AEGIS accessions per country of origin

ORIGCTY	T. Aestivum (6x)	T.Spelta (6x)	Triticum species (4x)	Triticum species (2x)	Total
TRAID CSK/CZE	373	14	61	2	**450**
TRISECA CSK/CZE	397	14	54	2	**467**

New documentation system in 2015 – migration of data (year of TRAID)

Revisions of data → quality improvement

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Status of AEGIS collection

Status of samples in AEGIS wheat collection

Status	T. Aestivum (6x)	T.Spelta (6x)	Triticum species (4x)	Triticum species (2x)	Total
Wild					0
Weedy					0
Traditional cultivar/landrace	32	10	11	2	55
Breedings/research material	148	3	40		191
Advanced/improved cultivar	217	1	3		221
Total	**397**	**14**	**54**	**2**	**467**

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Summary of passport data (MCPD v2)

Country	Number of AEGIS accessions	INSTCODE	ACCENUMB	COLLNUMB
CZE	467	100 %	100 %	4 (65) %
COLLCODE	GENUS	SPECIES	SPAUTHOR	SUBTAXA
4 (65) %	100 %	100 %	100 %	95 %
SUBTAUTHOR	CROPNAME	ACCENAME	ACQDATE	ORIGCTY
78 %	100 %	100 %	100 %	100 %
COLLSITE	LATITUDE	LONGITUDE	ELEVATION	COLLDATE
5 (96) %	4 (69) %	0 %	0 %	6 (100) %
BREDCODE	SAMPSTAT	ANCEST	COLLSRC	DONORCODE
75 %	100 %	69,3 %	5 (96) %	71 %
DONORNUMB	OTHERNUMB	DUPLSITE	STORAGE	MLSSTAT
29 %	15 %	99 %	100 %	100 %
REMARKS	GR_CLASS	PLOIDY	REG_YEAR	SYNONYM_
0 %	100 %	100 %	34,7 %	2 %
EXP_CODE	SITE_DES	HERBAR_	PRINC_ATTR	ENTRY_DATE
4 (69) %	5 (96) %	100 %	0 %	100 %
MAN_CENTER	AVAILAB	AEGISSTAT		
100 %	100 %	98 %		

26 collected acc.

412 breed. acc.

441 donat. acc.

MANDATORY

OPTIONAL

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MANDATORY
OPTIONAL

Summary of Characterisation & Evaluation data

Country	Number of AEGIS accessions	II/I AWNEDNESS	II/2 GRAIN COLOUR
CZE	467	57,2 %	55,1 %
II/3 GLUME COLOUR	II/4 GLUME HAIRINESS	II/5 SPIKE DENSITY	II/6 PLANT HEIGHT
55,1 %	57,2 %	68,8 %	76,5 %
II/7 1000-KERNEL WEIGHT	II/8 PROTEIN CONTENT	II/9 PRINCIPAL UTILIZATION	II/10 YIELD LEVEL
76,2 %	65,3 %	0 %	0 %
II/11 LODGING INTENSITY	II/12 S TO STEM RUST	II/13 S TO STRIPE RUST	II/14 S TO LEAF RUST
57,8 %	19,7 %	19,9 %	0 %
II/15 S TO POWDERY MILDEW	II/16 S TO LEAF BLOTCH	II/17 S TO GLUME BLOTCH	II/18 S TO HEAD BLIGHT
55 %	0 %	0 %	0 %
II/19 S TO EYESPOT	II/20 S TO TAKE-ALL	II/21 S TO TAN SPOT	II/22 ZELENY TEST
0 %	0 %	0 %	61,6 %

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Difference TRAID x TRISECA within CZE AEGIS wheat collection

Passport data	TRAID	TRISECA
Collected accessions	0	26
C&E descriptors	**TRAID**	**TRISECA**
Lodging Intensity	0 %	57,8 %

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Diversity within the AEGIS collection

D5 Spike density within AEGIS collection

Spike density	T. Aestivum (6X)	T.Spelta (6X)	others Triticum species
Very low (< 16)	4		
Low (16 - 25)	219	4	7
Intermediate (25,1 - 30)	30		19
High (30,1 – 40)	13		18
Very high (> 40)			1

Spike density – the average number of spikelets per 10 cm lenght of spike

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Diversity within the AEGIS collection

D6 Plant height within AEGIS collection

Plant height	T. Aestivum (6x)	T.Spelta (6x)	others Triticum species
Dwarf (<35)			
Dwarf to short (35 - 50)			
Short (51 - 65)	3		
Short to intermediate (66 – 80)	15		2
Intermediate (81 – 95)	90	3	8
Intermediate to high (96 – 110)	72	7	8
High (111 – 125)	98	1	11
High to very high (126 – 140)	29		2
Very high (>140)			1

Plant height – at maturity from ground to top of spike, excluding awns in cm

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Diversity within the AEGIS collection

D7 1000 kernel weight within AEGIS collection

1000 kernel weight	T. Aestivum (6x)	T.Spelta (6x)	others Triticum species
Very low (< 27)	1		2
Low (27 - 36)	38	1	9
Intermediate (36,1 - 45)	190	6	11
High (45,1 – 54)	76	3	4
Very high (> 54)	2		4

1000 kernel weight – in grames

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Diversity within the AEGIS collection

D8 Protein content within AEGIS collection

Protein content	T. Aestivum (6x)	T.Spelta (6x)	others Triticum species
Very low (< 9,0)			
Very low to low (9,0 – 10,2)	2	1	
Low (10,3 – 11,4)	12	1	
Low to intermediate (11,5 – 12,6)	21	1	
Intermediate (12,7 – 13,8)	51	2	
Intermediate to high (13,9 – 15,0)	38		
High (15,1 – 16,2)	90	1	
High to very high (16,3 – 18,0)	68		2
Very high (>18,0)	2	1	6

Protein content – in % DW