



Plants
Agroscope technical sheets | N°18 / 2016
Varietal sheet | Oat

Expander

Avena sativa L.

Country of origin: Austria

Passport

Variety name: Expander
Variety status: Advanced cultivar
Region:
Accession number: AV0001
Accession name: Expander
Acquisition date: 1998
Donor name: Plantbreeding
Agricultural College Edelfhof
Donor number:
Remarks: Standard variety
Gelbhafer



Physiologic characterization

Evaluation: Agroscope Charline Daujat 2015
Prangins CH: Rives (380m) 462339N/0061456E

Type: Spring
Precocity: 145
Lodging: Low
Height: 105cm
TKW: 29.73

Technologic values

Analyzes: Agroscope Charline Daujat/Charlotte Martin 2016
Prangins CH: Rives (380m) 462339N/0061456E

Protein content: 12.23%
Test weight (kg/hl): 59.87
Grain length/width (mm): 10.37/2.63
Percentage of husk: 22.05%
βglucan content: 5.31%
Mycotoxin content:

Diseases sensitivity

Notations:

Puccinia coronata:

Puccinia graminis:

Particular remarks



Morphologic characterization¹

Description: Agroscope Charline Daujat 2015

Prangins CH: Rives (380m) 462339N/0061456E

Vegetative

Code	Descriptors	Comments	0	1	2	3	4	5	6	7	8	9
4.1.6.	Stem thickness	relative to reference varieties ²				X						
4.1.7.	Nodes hairiness		X									
4.1.8.	Angle of flag leaf to culm				X							
4.1.9.	Rigidity of flag leaf					X						
4.1.10.	Angle to culm of leaves	other than flag leaf				X						
4.1.11.	Rigidity of leaves	other than flag leaf					X					
4.1.12.	Hairiness of leaf sheath	lower leaves	X									
4.1.13.	Hairiness of leaf margin	leaf below flag leaf	X									
6.1.1.	Length of second leaf from top	relative to reference varieties ²							X			
6.1.2.	Width of second leaf from top	at widest point and relative to reference varieties ²								X		
6.1.3.	Number of tillers	relative to reference varieties ²			X							
6.1.4.	Number of fertile tillers	relative to reference varieties ²					X					
6.1.5.	Lodging at immature stage					X						
6.1.6.	Lodging at mature stage				X							

Inflorescence, fruit and grain

Code	Descriptors	Comments	0	1	2	3	4	5	6	7	8	9
4.2.3.	Angle of panicle branches to main axis						X					
4.2.4.	Erectness of spikelets					X						
6.2.3.	Maturity and Straw	Relation between maturity of grain and straw				X						
4.3.2.	Hairiness of lemma		X									
4.3.8.	Hairiness at basal part of the primary grain									X		
6.3.1.	Grain shedding at maturity	cultivated forms						X				
4.3.4.	Awedness	recorded on basal floret	X									



Spikelet color³



Leaf color³



Straw color³

Shape of panicle:	Equilateral	Kernel covering:	Yes
Waxiness of the panicle:	Yes	Lemma color:	Yellow
Number of seeds in panicle:	96	Awn type:	/
Number of grains in spikelet:	2	Position of awn insertion:	/

Impressum

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¹ Descriptors from IBPGR document "Oat descriptors", Rome 1985.

² Reference varieties: Expander, Ebène and Triton.

³ Scale from "Kriterien der Getreidearten einschließlich Mais und ihre Bewertung zur Sortenidentifizierung", Dr. R. Milatz, 1970.