

**SORTSBESKRIVELSE**  
UPOV Variety Descriptions

1. **Anm.nr.:** 29674  
*Reference no. of reporting authority:*
2. **Anm.nr. i anmeldelsesland:** 25998  
*Reference no. of requesting authority:*
3. **Forædlerbetegnelse:** SJ 148124  
*Breeder's reference*
4. **Anmelder (navn og adresse):** SCANDAGRA EESTI AKTSIASELTS,  
*Applicant (name and address):* Tähe 13, Viljandi linn, Viljandimaa, 71020, Eesti
- Sortens oprindelse:** (Tamtam \* Overture) \* SJ107844  
*Information on origin of the variety:*

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5. **Latinsk artsnavn:** Hordeum vulgare L.  
*Botanical name of the taxon:*  
**UPOV Species code:** HORDE\_VUL
6. **Artsnavn:** Byg  
*Species:* Barley
7. **Sortsnavn:** Flair  
*Variety denomination:*
8. **UPOV retningslinier for afprøvning:** TG/19/10  
*UPOV Test guideline:*
9. **CPVO retningslinier for afprøvning:** TP/019/3  
*CPVO Test guidelines*
- Nationale retningslinier for afprøvning:** Byg 2012  
*National test guidelines*
10. **Afprøvningsmyndighed:** TystofteFonden  
*Testing authority:* TystofteFoundation
11. **Afprøvningssted:** TystofteFonden  
*Testing station and place:* Teglværksvej 10  
DK-4230 Skælskør
12. **Afprøvningsår:** 2014-2015  
*Period of testing*
13. **Beskrivelse udfærdiget:** 15/03/2016  
*Date of issue of document:*
14. **Gruppe: De kendetegn under pkt. 15, der anvendes til gruppering, er markeret:**  
*Group: If characteristics of number 15 are used for grouping, they are marked:*

**G = UPOV & CPVO, UG = UPOV, CG = CPVO, NG = National**

15. **Egenskaber inkluderet i UPOV's og CPVO's retningslinier eller i de nationale retningslinier for afprøvning.**

*Characteristics included in the UPOV and CPVO Test Guidelines or National Test Guidelines.*

	Nr. / No.			Kendetegn <i>Characteristics</i>	Udtryk <i>States of Expression</i>	Grad <i>Note</i> <sup>0</sup>	Bemærkninger <i>Remarks</i>
	UPOV	CPVC	Nat.				
A;VG	28	1	31	Kerne: aleuronceller-farve <i>Grain: color of aleurone layer</i>	Hvidligt <i>Whitish</i>	1	
(*) B;VG	1	2	1	Plante: vækstmåde <i>Plant: growth habit</i>	Middel til halvt udbredt <i>Intermediate to semi prostrate</i>	6	
G (*) A;VG	2	3	2	Blad (nedre): bladskede-behåring <i>Lowest leaves: hairiness of leaf sheaths</i>	Uden <i>Absent</i>	1	
(*)	3	-	3	Flagblad: pigment på bladtænder <i>Flag leaf: anthocyanin coloration of auricles</i>	- -	0	
(*)	4	-	4	Flagblad: intensitet af pigment på bladtænder <i>Flag leaf: intensity of anthocyanin coloration of auricles</i>	- -	0	
B;VG	-	4	5	Flagblad: intensitet af pigment på bladtænder <i>Flag leaf: intensity of anthocyanin coloration of auricles</i>	Stærk til meget stærk <i>Strong to very strong</i>	8	
B;VG	5	5	6	Flagblad: stilling <i>Flag leaf: attitude</i>	Halvt opret <i>Semi erect</i>	3	
B;VG	6	6	7	Flagblad: voksbelægning på bladskede <i>Flag leaf: glaucosity of sheath</i>	Stærk til meget stærk <i>Strong to very strong</i>	8	
(*) B;MG	7	7	8	Aks: skridning <i>Time of emergence (first spikelet visible on 50% of ears)</i>	Tidlig til middel <i>Early to medium</i>	4	
G (*) B;VG	8	-	9	Stak: pigment <i>Awns: anthocyanin coloration of tips</i>	- -	0	
(*) B;VG	9	-	10	Stak: intensitet af pigment på spidser <i>Awns: intensity of anthocyanin coloration of tips</i>	- -	0	
B;VG	-	8	11	Stak: intensitet af pigment på spidser <i>Awns: intensity of anthocyanin coloration of tips</i>	Stærk til meget stærk <i>Strong to very strong</i>	8	
(*) B;VG	10	9	12	Aks: voksbelægning <i>Ear: glaucosity</i>	Stærk <i>Strong</i>	7	
B;VG	11	10	13	Aks: stilling <i>Ear: attitude</i>	Opret til halvt opret <i>Erect to semi-erect</i>	2	

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*Characteristics included in the UPOV and CPVO Test Guidelines or National Test Guidelines.*

Nr. / No.	Kendetegn			Udtryk	Grad	Bemærkninger
	Characteristics					
UPOV	CPVC	Nat.				
(*) B;MG	12	11	14	Plante: højde (strå, aks og stak) <i>Plant: length (stem, ear and awns)</i>	Kort til middel <i>Short to medium</i>	4
G (*) B;VG	13	12	15	Aks: type <i>Ear: number of rows</i>	Toradet <i>Two</i>	1
A;VG	14	13	16	Aks: form <i>Ear: shape</i>	Parallel <i>Parallel</i>	5
(*) A;VG	15	14	17	Aks: tæthed <i>Ear: density</i>	Løst til middel <i>Lax to medium</i>	4
A;MS	16	15	18	Aks: længde (uden stak) <i>Ear: length (excluding awns)</i>	Middel <i>Medium</i>	5
A;MS	-	-	33	Aks: staklængde <i>Ear: length of awn</i>	Middel <i>Medium</i>	5
(*) A;MS	17	16	19	Aks: staklængde (i fht. akslængde) <i>Awn: length (compared to ear)</i>	Middel <i>Medium</i>	5
A;MS	18	17	20	Aks: internodie (1.)-længde <i>Rachis: length of first segment</i>	Middel <i>Medium</i>	5
A;VG	19	18	21	Aks: internodie (1.)-krumning <i>Rachis: curvature of first segment</i>	Middel <i>Medium</i>	5
A;VG	-	19	22	Aks: udvikling af sterile småaks <i>Ear: development of sterile spikelets</i>	Ingen eller rudimentære <i>Non or rudimentary</i>	1
(*) A;VG	20	19	23	Sterile småaks: stilling (i midt tredjedel af aks) <i>Sterile spikelet: attitude (in mid-third of ear)</i>	- -	0
A;VG	21	21	24	Miderste småaks: længde af nedre yderavne i fht. kerne <i>Median spikelet: length of glume and its awn relative to grain</i>	Tilsvarende <i>Equal</i>	2
G (*) A;VG	22	22	25	Kerne: bugstilk-behåring <i>Grain: rachilla hair type</i>	Lang <i>Long</i>	2
(*) A;VG	23	23	26	Kerne: skal-forekomst <i>Grain: husk</i>	Med <i>Present</i>	9
B;VG	24	24	27	Kerne: nedre inderavnepigment <i>Grain: anthocyanin coloration of nerves of lemma</i>	Middel <i>Medium</i>	5
A;VG	25	25	28	Kerne: nedre inderavne-tandethed <i>Grain: spiculation of inner lateral nerves of dorsal side of lemma</i>	Uden eller meget svag <i>Absent or very weak</i>	1

15. **Egenskaber inkluderet i UPOV's og CPVO's retningslinier eller i de nationale retningslinier for afprøvning.**

*Characteristics included in the UPOV and CPVO Test Guidelines or National Test Guidelines.*

	Nr. / No.		Kendetegn <i>Characteristics</i>	Udtryk <i>States of Expression</i>	Grad <i>Note</i> <sup>0</sup>	Bemærkninger <i>Remarks</i>
	UPOV	CPVC Nat.				
G (*) A;VG	26	26	29 Kerne: bugfure-behåring <i>Grain: hairiness of ventral furrow</i>	Uden <i>Absent</i>	1	
A;VG	27	27	30 Kerne: blomsterskæl-placering <i>Grain: disposition of lodicules</i>	Omsluttende <i>Clasping</i>	2	
G (*) B;VG	29	28	32 Dyrkningsform <i>Seasonal type</i>	Vår <i>Spring type</i>	3	

(\*) **Kendetegn, der altid skal medtages i beskrivelsen, medmindre udtrykket af foregående kendetegn umuliggør dette.**  
*Characteristics which should always be included in the description of a variety, except when the state of expression of a preceding characteristic renders this impossible.*

0) **Hvis graden er lig med 0 betyder det at kendetegnet ikke er bedømt/målt eller fordi udtrykket af foregående kendetegn umuliggør dette.**  
*If the note equalize 0 means, that the characteristic is not assessed/measured or because the state of expression of a preceding characteristic renders this impossible.*

16. **Lignende sorter og forskelle hvorved sorten adskiller sig fra disse.**  
*Similar Varieties and Differences in Relation to those Varieties*

<b>Sortsnavn for lignende sort</b> <i>Denomination of similar variety</i>	<b>Kendetegn hvorved den lignende sort adskiller sig</b> <i>Characteristic in which the similar variety is different</i>	<b>Udtryk for den lignende sort 1)</b> <i>State of expression of similar variety</i>	<b>Udtryk for kandidat-sorten</b> <i>State of expression of candidate variety</i>
Arwen	Aks: vokselægning <i>Ear: glaucosity</i>	Middel til stærk <i>Medium to strong</i>	Stærk <i>Strong</i>
Arwen	Aks: stilling <i>Ear: attitude</i>	Halvt opret <i>Semi-erect</i>	Opret til halvt opret <i>Erect to semi-erect</i>
KWS Irina	Aks: vokselægning <i>Ear: glaucosity</i>	Middel til stærk <i>Medium to strong</i>	Stærk <i>Strong</i>
KWS Irina	Aks: internodie (1.)-længde <i>Rachis: length of first segment</i>	Kort til middel <i>Short to medium</i>	Middel <i>Medium</i>

**1) I tilfælde af at begge sorter har samme udtryk anføres den reelle forskel.**

*In case of identical states of expression of both varieties, the size of the difference is indicated.*

17. a) **Yderligere oplysninger:**  
 Additional information:

b) **Supplerende data:**  
 Additional data:

An electrophoresis report is elaborated January 2016 showing clear difference between candidate Flair and reference varieties KWS Irina and Arwen. The Electrophoresis report is inclosed.

c) **Bemærkninger:**  
 Remarks:

**Analysis of protein characteristics**  
(CPVO-TP/19/2, BSA-Richtlinie März 2006)

Varieties: Spring Barley '**SJ 148124**' (29674)  
Spring Barley '**KWS Irina**' (27524)

**1) Result of analysis of 8 seeds**

Differences can be observed in the following characteristic:

Upov No.	Characteristic	'SJ 148124'	'KWS Irina'
31	C-Hordein composition: allele expression at locus Hor 1	bands 62+65+68 Note 1	bands 66,5+71 Note 4
-	D/C-Hordein composition	band 49+52 Note 2	bands 49 Note 1

**2) Results of the analysis of 80 seeds**

Based on the results of the analysis of 8 seeds a sample size of 80 seeds was tested for characteristics 'C-Hordein' and 'D/C-Hordein' composition. No off-type in 'SJ 148124' and 'KWS Irina' was observed.

**3) Conclusion**

A clear difference can be observed between 'SJ 148124' and 'KWS Irina' in characteristics 'C-Hordein' and 'D/C-Hordein' composition. Both varieties are uniform in these characteristics.

Varieties: Spring Barley '**SJ 148124**' (29674)  
Spring Barley '**Arwen**' (29737)

### 1) Result of analysis of 8 seeds

Differences can be observed in the following characteristic:

Upov No.	Characteristic	'SJ 148124'	'Arwen'
32	B-Hordein composition: allele expression at locus Hor 2	bands 79+86+88+100 Note 1	bands 79+82+88+91+92+101* Note 9
-	D/C-Hordein composition	bands 49+52 Note 2	bands 51,5 or 51,5+52 or 52 Note 1

\*) bei der Note in den B-Hordeinen liegt ein Fehler in der UPOV-Richtlinie vor:  
Bande 101 liegt auf der Position 100.

### 2) Results of the analysis of 80 seeds

Based on the results of the analysis of 8 seeds a sample size of 80 seeds was tested for characteristics 'B-Hordein' and 'D/C-Hordein' composition. No off-type in 'SJ 148124' and one off-type in 'Arwen' was observed.

### 3) Conclusion

A clear difference can be observed between 'SJ 148124' and 'Arwen' in characteristics 'B-Hordein' and 'D/C-Hordein' composition. Both varieties are uniform in these characteristics.