

Agrovista
exclusive

Alvius

Wheat

Since its launch in 2022 Alvius has become a key management tool and dependable varietal selection for growers across the UK with the increasingly unpredictable autumn weather conditions.

Alvius, originally designed to follow late lifted crops such as sugar beet, potatoes and maize has found favour with growers also looking for improved flexibility on farm.

Alvius gives opportunities for delayed drilling for blackgrass management, those wanting to spread workload and those wanting the flexibility to drill in the spring if late autumn weather conditions are poor.



Alvius

4 Hard (potential milling)

- Alvius offers an alternative functionality to crop establishment in 21st Century farming
- Ideally suited to follow roots where seedbeds may be compromised, Alvius has a six-month drilling window, with an approximate 1t/ha yield advantage to Belepi relative to drilling date
- Limited trials from UK-grown seed indicate possible high quality milling potential with high protein and specific weight across all drilling positions
- Alvius has not been through the UK VL trials process so cannot be directly compared to other wheats in this brochure
- For further reading, please visit the Alvius page in the wheat varieties section of our website: www.agrovista.co.uk/seeds/wheat-varieties/alvius

Mildew	(9)	
Yellow rust	(6)	
Brown rust	(6)	
Septoria tritici	(5.6)	
Fusarium	6	
Resistance to lodging	(7)	
Eyespot	-	
OWBM	-	
Maturity	-2 -1 (0) 1 2	

REGION	YIELD
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Yield assessments to date based on sowing month rather than soil type. Yields and specific weight in Agrovista trials have nevertheless ranged from KWS Extase to exceeding KWS Dawsum. Generally drilling Nov-Jan for best results

Spec. weight (79)

Bracket values give guidance on comparative agronomic values based on commercial observations and Agrovista trial performance.

growing through innovation

Flexible sowing date

To battle the challenges of late drilling, Alvius has exceptional vigour. Alvius can be drilled from mid-October onwards: it's best performance tends to be later drilling, where other true winter wheats start to struggle. Alvius wheat does not require vernalisation and has good winter hardiness, so emergence and leaf-growth can be rapid from later sowings.

"I drilled 30ha of Alvius for seed and 6.0ha of Belepi for commercial use into a cloddy seedbed 2 February" commented John Taylor, Clopton Suffolk. "There was no apparent difference in emergence between them, though Alvius continued to grow through an initial cold snap, while Belepi was held back a touch" he continued.

Speed of development

Breeder trials in harvest 2022 and 2023 highlighted the varieties speed of development not just in establishment but throughout the growing period.

Alvius has been shown to be early to harvest bringing the below benefits:

- HFN maintenance with an early and dry harvest
- Sprouting reduction with an earlier and drier harvest
- An increase in following crop options with an earlier harvest
- A reduction or elimination of drying costs with an earlier harvest

October sown wheat emergence - Lamport AgX 2024



Breeder trials in harvest 2022 and 2023

Harvest year 2021	Sowing date	Heading date	Harvesting date
WINTER WHEAT	07.10.2020	07.06.2021	06.08.2021
SPRING WHEAT	24.10.2020	13.06.2021	17.08.2021
ALVIUS WHEAT DRILLED AUTUMN	12.11.2020	11.06.2021	06.08.2021
ALVIUS WHEAT DRILLED SPRING	24.03.2020	13.06.2021	06.08.2021

Harvest year 2022	Sowing date	Heading date	Harvesting date
WINTER WHEAT	10.10.2021	24.05.2022	18.08.2022
SPRING WHEAT	23.10.2021	09.06.2022	22.08.2022
ALVIUS WHEAT DRILLED AUTUMN	18.11.2021	30.05.2022	10.08.2022
ALVIUS WHEAT DRILLED SPRING	23.03.2021	09.06.2022	10.08.2022

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Alvius continued to grow through an initial cold snap, while Belepi was held back a touch

John Taylor
Clopton Suffolk

Alvius yield

Over 3 years at our AgX site at Haddenham, Cambridgeshire Alvius has been shown to yield comparably to true winter wheat varieties when sown in November but with a superior specific weight. Sadly there was no data for harvest 2024 given the challenging autumn of 2023 where drilling wasn't possible.

Beyond late autumn drilling Alvius can be drilled throughout the spring if required. Within spring drilled trials Alvius continues to perform similarly to true spring wheats whilst retaining its impressive specific weight and clearly shows the versatility of the variety whatever the drilling window.

3-year mean November sown (t/ha) - AgX Haddenham following sugar beet

	2021	2022	2023	Yield mean	Specific weight mean
ALVIUS	10.83	13.14	12.09	12.02	76.7
CHAMPION	11.00	14.71	12.89	12.87	70.52
EXTASE	9.85	14.35	11.99	12.06	73.56
DAWSUM	9.94	14.13	11.70	11.92	74.21
SKYFALL	9.54	12.93	11.01	11.16	73.18

Drilling flexibility 2 years - treated yield

Trial Location	Suffolk	Hereford	Hereford	Hamps
Sowing Date	24th Feb	9th Apr	Spring	Spring
Harvest Year	Harvest 23		Harvest 24	
ALVIUS	6.922	4.57	6.32	6.94
NISSABA	7.514	5.33	6.41	6.72
BELEPI	7.194	4.1	5.78	6.56
KWS COCHISE	7.962	5.09		
LADUM			6.97	6.63
MULIKA	7.467	4.84	6.52	6.21

SOURCE: Independent trials - Agrovista contracted harvest 2023 and 2024

Canopy cover % rate of establishment. Drilled 26 November

Variety	Seed rate	Plants/m ²	Canopy cover %	Canopy cover %	Canopy cover %	Canopy cover %
		04/02/2021	04/02/2021	17/02/2021	05/03/2021	18/03/2021
ALVIUS	450	219	7.42	8.09	16.23	27.65
KWS CRANIUM	450	183	4.24	5.91	12.24	19.18
MULIKA	450	206	7.52	9.16	15.72	24.62
SKYFALL	450	197	5.16	7.13	16.16	23.44
KWS EXTASE	450	189	6.06	7.72	17.21	26.38
CHAMPION	450	202	6.24	7.93	16.73	28.61

SOURCE: AgX trials Haddenham, harvest 2021

Alvius copes well with later drilling conditions. Establishment and the ability to maximise green leaf area quickly are important factors. Visual assessments by variety at our fenland trial site following sugar beet, drilled 26 November into conditions politely described as 'challenging' illustrate Alvius' capabilities.

Alvius' speed of leaf production in the spring was notable with only Champion catching up with it by mid-March. By harvest both varieties were on par for yield, though the specific weight of Alvius proved notably higher, which is a reoccurring feature with this variety.