KWS ARNIE

+ A new High yielding Group-2 milling type

+ Similar to KWS Extase in disease resistance and agronomy

Breeder:
KWS, UK

Parentage:
KWS Extase x KWS Zyatt

Status:
Group 2 Milling/Feed

AHDB regional recommendation:
UK

A new Group 2 milling-type that is similar to but higher yielding than KWS Extase. It has high yields in both AHDB (106% treated, 87% untreated) and Agrii trials (108% treated, 65% treated), bold grain (79.1 kg/hl) and high HFN (287s). With a relatively low protein content (12.1%) it might be used as a blending wheat but is unsuitable for export under ukp.

Suitable for all regions of the UK. It is best grown on heavier and drilled in the main drilling window with its optimum performance no later than the end of October. Average height (88 cm) and reasonably stiff straw (7) (7) treated and (8) (6) untreated and early maturity (0). Avoid areas of high sterility risk until more information is available but its second wheat performance is quite acceptable.

Similar disease ratings to KWS Extase with evidence that resistance to both yellow rust (6.6) (5.4) and Septoria tritici (7) (6) is slipping and susceptibility to stem-based disease complex. Reasonable resistance against mildew (5.1) (5.4), brown rust (6) (6) but average against eyespot (4.5) with no PCH1 resistance. It is not resistance to orange wheat blossom midge.

Agrii yield & grain quality - Agrii 3 yr mean (min 21 trials)

UK fungicide treated yield (% controls)	108
Untreated yield (% controls)	65
Specific weight (kg/hl)	76.2

AHDB yield & grain quality - AHDB RL [] = limited data

UK fungicide treated yield (% controls)	106
East fungicide treated yield (% controls)	106
West fungicide treated yield (% controls)	108
North fungicide treated yield (% controls)	[103]
Untreated yield (% treated controls)	87
Specific weight (kg/hl)	79.1
Protein Content (%)	12.1
Hagberg Falling Number	287

Disease ratings (black = AHDB RL data) Red = Agrii data

Mildew resistance (1-9)	[5.1]	[5.4]
Yellow rust plant susceptibility before GS32-33	Susceptible	
Yellow rust resistance (1-9)	6.6	5.4
Brown rust resistance (1-9)	6.0	5.9
Septoria tritici resistance (1-9) 3 year rating	7.0	6.0
Stem Based Disease Complex (Agrii 2023)	[[S]]	
Eyespot resistance (1-9)	4.5	-
Carries PCH1 Rendezvous gene for Eyespot resistance	No	
Fusarium ear blight resistance (1-9)	5.8	-

Agronomic characters
Black = AHDB RL data, red = Agrii data   [] = limited data

Lodging resistance - PGR untreated (1-9)	7.6	[6]
Lodging resistance - PGR treated(1-9)	7.4	[7]
Height - PGR untreated (cm)	88	-
Maturity (days +/- Skyfall)	0	[0]
Agrii grassweed competitiveness rating	TNC	
OWBM resistance (breeder claim)	No	
BYDV tolerance (breeder claim)	No	

Agrii intelligence - complementary information
[] = limited data

Yield consistency	Medium
Yield 'resilience' under disease pressure	Medium
Agrii yellow rust diversification group	L2
2nd v 1st wheat **relative** performance	Acceptable
Soil type suitability	[Heavy+OK light]
Suitability to drill early (before 15th Sept)	No
Latest **optimum** drilling date	[End Oct
AHDB latest **safe** sowing dates (breeder: see notes)	[[End Jan]]
Suitable for regions of high sterility risk	TNC
British Cereal Exports (BCE) rating	-
SRUC Scottish RL Status **2025/26**	P1 Recommended
Variety Sustainability Rating (Max 42)	Medium

Note: Specific weights are assessed in the field and are consistently below those of cleaned samples.
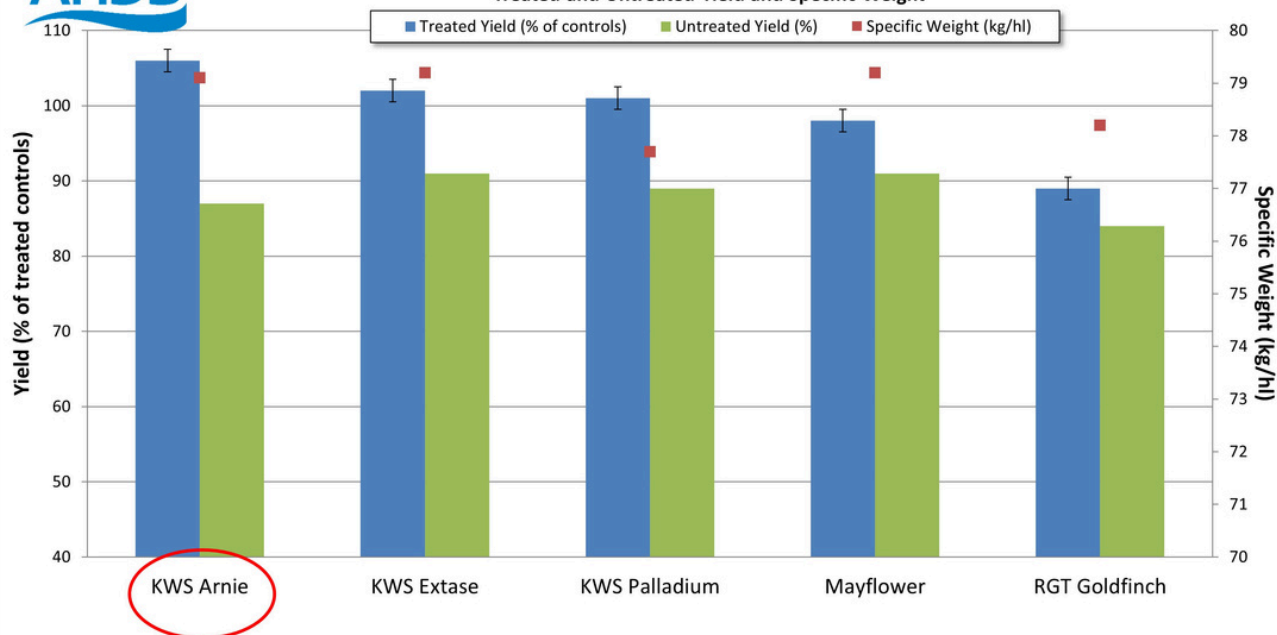Full RL dataset is available from AHDB at www.ahdb.org.uk

Agri intelligence

Winter Wheat Wheat Performance - UK Recommended List, 2025-26
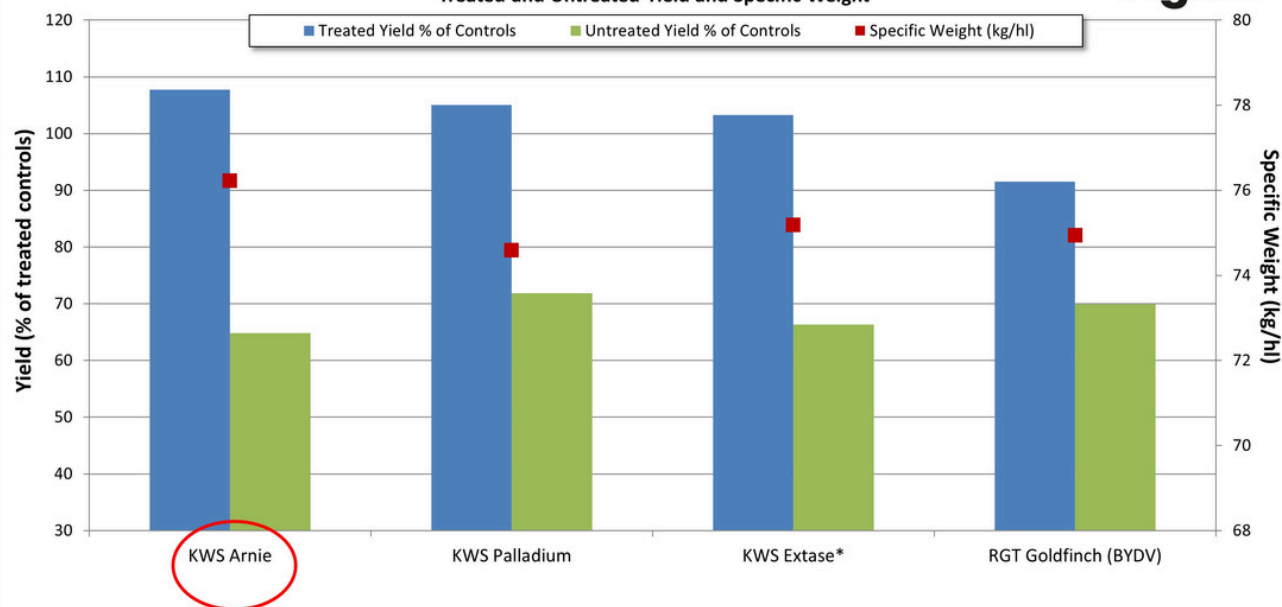Treated and Untreated Yield and Specific Weight

Source: AHDB UK Recommended List, Mean yield of controls* = 10.8 t/ha, https://ahdb.org.uk

Winter Wheat Variety Trials - 2024 National Trials Summary
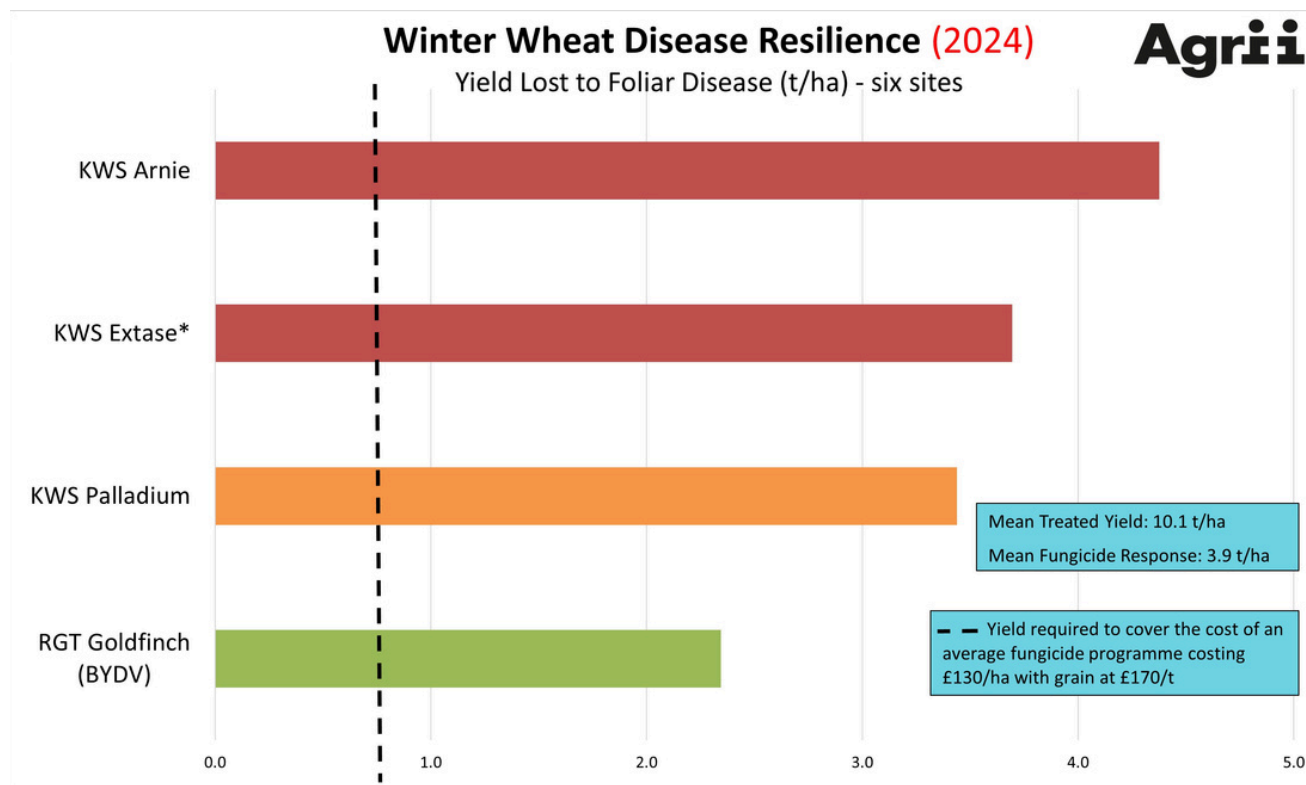Treated and Untreated Yield and Specific Weight

Eight trials (Wiltshire, Lincolnshire, East Yorks, Kent, South Wales, Bedfordshire, Essex and Angus) Yield of controls* = 10.2 t/ha
Note : Untreated results are from unreplicated plots

Note: Specific weights are assessed in the field and are consistently below those of cleaned samples.

Agrii

KWS ARNIE

Winter Wheat Disease Resilience (2024)

Yield Lost to Foliar Disease (t/ha) - six sites

Agrii

Mean Treated Yield: 10.1 t/ha

Mean Fungicide Response: 3.9 t/ha

– – Yield required to cover the cost of an average fungicide programme costing £130/ha with grain at £170/t

Note: Specific weights are assessed in the field and are consistently below those of cleaned samples.

Agrii