

Winter oilseed rape 2022/23

Yield, agronomy and disease resistance



Variety type	Recommended for the UK (both East/West and North regions)													Recommended for the East/West region only										Recommended for the North region only		Recommended for use on clubroot-infected land only				Described varieties			Average LSD (5%)			
	PT303	LG Auckland	Ambassador	LG Aviron	Aurella	Artemis	Acacia	Annika	Aardvark	Aspire	Matrix CL <sup>&amp;</sup>	LG Constructor CL <sup>&amp;</sup>	V 316 OL	DK Imprint CL <sup>&amp;</sup>	LG Adonis	Dart	Tennison	LG Antigua	Respect	Fleming	DK Expectation	Darling	Dazzler	PT279CL <sup>&amp;</sup>	Nizza CL <sup>&amp;</sup>	Amarone	Blazen	Crome <sup>#</sup>	Croozier <sup>#</sup>	Crossfit <sup>#</sup>	Crocodile <sup>#</sup>	PX131		PX138	Resort	
Scope of recommendation	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Conv	Conv	Conv	Conv	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Conv	Conv	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid
Variety status	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK Sp	UK Sp	UK Sp	UK Sp	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W Sp	E/W Sp	N	N	UK Sp	E/W Sp	E/W Sp	E/W Sp	UK SD	E/W SD	UK HEAR		
Gross output, yield adjusted for oil content (% treated control)	NEW	NEW									NEW	NEW		NEW	NEW	NEW			NEW						NEW				NEW					NEW		
United Kingdom (5.1 t/ha)	107	107	106	105	105	104	104	103	100	100	99	96	96	92	107	105	103	104	103	103	101	100	99	94	91	101	99	99	96	98	100	92	92	90	4.9	
East/West region (5.0 t/ha)	108	108	106	105	105	104	104	103	100	100	100	97	96	92	108	106	104	104	104	104	102	100	99	94	91	100	98	99	96	99	101	91	91	90	5.5	
North region (5.8 t/ha)	104	104	104	104	105	102	104	102	100	100	96	94	97	91	103	95	95	103	99	97	96	99	97	92	90	105	101	101	97	92	96	97	96	91	5.5	
<b>Seed yield (% treated control)</b>																																				
United Kingdom (4.7 t/ha)	106	107	106	107	105	104	104	103	101	100	99	98	96	94	106	104	103	104	104	104	101	99	98	95	91	101	100	99	98	97	101	91	92	90	4.5	
East/West region (4.6 t/ha)	107	108	106	107	105	104	104	103	101	100	99	98	96	95	106	106	105	104	105	102	99	98	95	92	100	99	98	98	98	102	90	91	90	4.5		
North region (5.3 t/ha)	104	104	105	106	106	102	104	101	100	100	96	95	97	94	102	96	96	103	100	98	96	98	96	94	91	105	103	100	98	91	97	95	91	91	5.3	
<b>Untreated gross output, yield adjusted for oil content (% untreated control) □</b>																																				
United Kingdom (5.1 t/ha)	-	-	107	110	106	103	104	-	104	101	-	-	98	94	-	-	-	106	106	-	96	100	99	93	87	-	98	100	93	-	98	90	-	93	8.3	
<b>Untreated seed yield (% untreated control) □</b>																																				
United Kingdom (4.8 t/ha)	-	-	107	111	107	103	104	-	104	101	-	-	98	96	-	-	-	106	107	-	96	99	97	94	88	-	99	98	94	-	99	90	-	92	7.9	
<b>Agronomic features</b>																																				
Resistance to lodging (1-9)	[8]	[8]	8	[7]	8	8	8	[8]	8	8	[8]	[8]	8	[8]	[8]	[8]	[8]	[8]	[8]	[8]	[8]	8	8	8	8	[8]	[8]	8	8	[8]	8	8	[8]	8	0.3	
Stem stiffness (1-9)	8	7	8	7	8	8	9	8	8	9	8	8	8	7	8	9	7	8	8	9	7	8	9	8	8	8	8	9	8	7	7	9	9	8	0.7	
Shortness of stem (1-9)	5	6	6	6	6	6	7	6	6	7	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	6	6	7	6	6	6	6	6	0.3	
Plant height (cm)	164	155	154	156	150	157	145	149	149	140	159	148	152	158	149	150	150	156	156	156	150	153	148	152	147	143	148	148	146	148	148	116	121	149	3.5	
Earliness of flowering (1-9)	5	7	7	8	7	6	6	6	7	7	6	6	6	5	7	7	6	7	6	8	7	8	6	7	7	6	6	7	6	6	6	6	5	7	0.4	
Earliness of maturity (1-9)	5	6	6	6	5	6	5	4	5	4	6	6	5	5	5	5	5	6	5	4	6	5	6	6	5	5	5	5	6	6	6	5	6	5	0.4	
Pod shatter resistance	-	R	R	R	R	R	-	-	-	-	R	R	-	R	-	-	-	R	-	-	R	R	R	-	-	-	-	-	-	R	-	-	-	-	-	
<b>Disease resistance</b>																																				
Light leaf spot (1-9)	7	7	7	8	7	6	6	7	7	7	6	6	6	6	7	7	7	6	6	7	7	6	6	5	5	7	7	6	6	5	6	7	6	6	0.6	
Stem canker (1-9)	7	7	7	7	7	7	5	6	6	5	8	6	5	8	8	7	9	7	7	8	7	8	8	5	6	6	6	4	8	9	4	6	6	5	0.9	
TuYV	R	R	R	R	R	R	-	R	-	R	R	R	-	-	R	R	R	R	-	R	R	R	R	-	-	R	-	-	-	R	-	-	R	-	-	

Varieties no longer listed in the UK (both East/West and North regions): Ballad, DK Expansion and Temptation.  
 Varieties no longer listed in the East/West region: George and PT275.  
 Varieties no longer listed in the North region: Barbados and DK Exsteel.  
**HEAR (High Erucic Acid) and semi-dwarf varieties are described. Data is provided for information only and does not constitute a recommendation.**  
 On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).  
 The target (spring) plant population is 40 plants/m<sup>2</sup> for RL trials. Maximum seed rate is 70 seeds/m<sup>2</sup> and may be lower if conditions permit.  
 Glucosinolate contents are taken from the National List trials data.  
 Yield figures for regions where the variety is not recommended are provided for information only and are indicated in italics.

UK = Recommended for both the East/West and North regions  
 E/W = Recommended for the East/West region  
 N = Recommended for the North region  
 Sp = Specific recommendation  
 Conv = Conventional open-pollinated variety  
 SD = Semi-dwarf variety

C = Yield control (for current table). For this table, Campus, DK Expansion, Elgar and Temptation were also control varieties but are no longer listed  
 \* = Variety no longer under test in RL trials in region  
 & = Herbicide-tolerant variety. This variety has a specific recommendation for tolerance to specific imidazolinone herbicides (a Clearfield® variety)  
 - = HOLL (High Oleic, Low Linolenic) variety

# = Specific recommendation for growing on land infected with common strains of clubroot. Believed to be resistant to common strains of clubroot, but this has not been verified in Recommended List tests. These varieties should only be used in line with AHDB clubroot management guidelines, to reduce the risk of resistance breakdown  
 HEAR = High Erucic Acid variety  
 [ ] = Limited data  
 □ = Untreated trials are treated for sclerotinia at flowering  
 TuYV = Turnip yellows virus  
 R = Believed to be resistant to the trait (TuYV or pod shatter), but this has not been verified in Recommended List tests

LSD = Least significant difference  
 Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

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Supplementary data



	Recommended for the UK (both East/West and North regions)														Recommended for the East/West region only										Recommended for the North region only		Recommended for use on clubroot-infected land only				Described varieties						
	PT303	LG Auckland	Ambassador	LG Aviron	Aurella	Artemis	Acacia	Annika	Aardvark	Aspire	Matrix CL <sup>&amp;</sup>	LG Constructor CL <sup>&amp;</sup>	V 316 OL	DK Impint CL <sup>&amp;</sup>	LG Adonis	Dart	Tennison	LG Antigua	Respect	Fleming	DK Expectation	Derling	Dazzler	PTZ79CL <sup>&amp;</sup>	Nizza CL <sup>&amp;</sup>	Amarone	Blazen	Crome <sup>#</sup>	Crozier <sup>#</sup>	Crossfit <sup>#</sup>	Crocaille <sup>#</sup>	PX131	PX138	Resort			
Variety type	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Conv	Conv	Conv	Conv	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Conv	Conv	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid		
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK Sp	UK Sp	UK Sp	UK Sp	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W	E/W Sp	E/W Sp	N	N	UK Sp	E/W Sp	E/W Sp	E/W Sp	E/W Sp	E/W Sp	E/W Sp	UK SD	E/W SD	UK HEAR
Variety status	NEW	NEW				*				C	NEW	NEW	*		NEW	NEW	NEW			NEW		*	*	E/W Sp	E/W Sp	NEW	*	*	NEW	*	*	NEW	*		NEW		
Breeder/UK contact	PionOS Cor	LimEur Lim	LimEur Lim	LimEur Lim	LimEur Lim	LimEur Lim	LimEur Lim	LimEur Lim	LimEur Lim	LimEur Lim	DSV DSV	LimEur Lim	MonTec Bay	MonTec Bay	LimEur Lim	DSV DSV	SyP Els	LimEur Lim	NPZ LSPB	NPZ LSPB	MonTec Bay	DSV DSV	DSV DSV	PionOS Cor	R2n RAGT	LimEur Lim	KWSMR KWS	NPZ LSPB	Lemb LSPB	MonTec DSV	Lemb DSV	PionOS Cor	PionOS Cor	Lemb LSPB			
Annual treated gross output, yield adjusted for oil content (% control) - UK	-	-	103	103	104	102	104	-	102	102	-	-	96	91	-	-	-	104	101	-	99	98	97	94	91	-	100	101	95	-	98	-	-	97	-	91	
2018 (5.6 t/ha)	[107]	[105]	105	105	105	104	105	[104]	101	102	[98]	[95]	95	91	[106]	[101]	[100]	104	102	[101]	100	101	101	91	92	[105]	99	101	98	[94]	98	92	[94]	90	-		
2019 (5.5 t/ha)	106	107	107	108	107	103	102	101	101	98	100	97	99	95	104	101	101	104	103	100	100	101	98	93	87	101	100	99	97	98	98	93	95	89	-		
2020 (5.4 t/ha)	105	106	104	103	105	102	103	103	101	99	96	92	96	92	104	99	97	102	100	100	95	97	95	93	90	102	100	100	95	95	99	94	92	92	-		
2021 (5.1 t/ha)																																				-	
Treatment benefit at co-located sites (% treated control) <sup>§</sup>	-	-	107	109	106	105	104	-	102	100	-	-	97	95	-	-	-	105	103	-	97	100	98	93	90	-	98	101	97	-	99	91	-	91	8.7		
Treated gross output - UK (5.4 t/ha)	-	-	102	105	101	98	99	-	99	96	-	-	93	89	-	-	-	101	101	-	92	95	94	89	83	-	93	95	89	-	93	86	-	88	7.9		
Untreated gross output - UK (5.4 t/ha) <sup>¶</sup>																																				-	
Seed quality (at 9% moisture)																																				-	
Oil content, fungicide-treated (%)	46.0	45.4	45.0	44.3	45.0	45.4	45.3	45.2	45.5	45.5	45.8	44.4	45.2	43.7	46.4	45.5	45.2	45.4	44.9	44.8	45.2	46.0	46.1	44.8	44.7	45.1	44.5	46.1	44.5	46.4	44.7	46.4	45.4	45.6	0.3		
Glucosinolate (µmoles/g)	8.0	12.2	10.9	11.2	10.2	12.3	8.1	11.6	10.0	9.9	14.2	15.8	12.3	14.3	9.7	10.0	11.1	11.5	11.8	12.0	12.2	12.2	11.1	10.9	14.9	11.9	10.7	10.8	12.2	11.7	12.8	9.4	11.0	14.0	-		
Status in RL system																																				-	
Year first listed	22	22	20	21	20	20	22	20	19	22	22	15	21		22	22	22	21	21	22	21	20	20	19	20	22	20	19	20	22	20	20	22	20			
RL status	P1	P1	-	P2	-	*	-	P1	*	-	P1	P1	*	P2	P1	P1	P1	P2	P2	P2	P1	P2	*	*	-	*	P1	*	-	*	P1	-	-	P1	-		

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\* = Variety no longer under test in RL trials in region  
 & = Herbicide-tolerant variety. This variety has a specific recommendation for tolerance to specific imidazolinone herbicides (a Clearfield<sup>®</sup> variety)  
 ~ = HOLL (High Oleic, Low Linolenic) variety  
 § = Co-located sites are a subset of trial locations where both treated and untreated trials are present. Data are presented as a percentage of the treated control varieties at these sites only  
 ¶ = Untreated trials are treated for sclerotinia at flowering

# = Specific recommendation for growing on land infected with common strains of clubroot. Believed to be resistant to common strains of clubroot, but this has not been verified in Recommended List tests. These varieties should only be used in line with AHDB clubroot management guidelines, to reduce the risk of resistance breakdown  
 HEAR = High Erucic Acid variety  
 [ ] = Limited data  
 P1 = First year of recommendation  
 P2 = Second year of recommendation

LSD = Least significant difference  
 Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

Bay = Bayer CropScience ([bayercropscience.co.uk](http://bayercropscience.co.uk))  
 Cor = Corteva Agriscience™ ([corteva.co.uk/pioneer](http://corteva.co.uk/pioneer))  
 DSV = DSV UK ([dsv-uk.co.uk](http://dsv-uk.co.uk))  
 Els = Elsoms Seeds ([elsoms.com](http://elsoms.com))  
 KWSMR = KWS Momont Recherche ([kws-uk.com](http://kws-uk.com))  
 KWS = KWS UK ([kws-uk.com](http://kws-uk.com))

Lemb = Lembke, Germany  
 Lim = Limagrain UK ([lgseeds.co.uk](http://lgseeds.co.uk))  
 LimEur = Limagrain Europe SA ([lgseeds.co.uk](http://lgseeds.co.uk))  
 LSPB = LS Plant Breeding ([lspb.eu](http://lspb.eu))  
 MonTec = Monsanto Technology LLC ([monsanto.com](http://monsanto.com))

NPZ = NPZ-Lembke, Germany ([npz.de](http://npz.de))  
 PionOS = Pioneer Overseas Corporation ([corteva.co.uk/pioneer](http://corteva.co.uk/pioneer))  
 R2n = RAGT, France ([ragt.co.uk](http://ragt.co.uk))  
 RAGT = RAGT Seeds ([ragt.co.uk](http://ragt.co.uk))  
 SyP = Syngenta Participations AG ([syngenta.co.uk](http://syngenta.co.uk))