



PIONEER

MADE TO GROW™

2023

HYBRID RANGE

Winter OSR



CORTEVA[™]
agriscience

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For further information about Pioneer Oilseed Rape hybrids,
please visit: www.corteva.co.uk/pioneer

*Pioneer hybrids in this booklet contain OG-INRA
Technology from INRA, France.*

AHDB data referenced can be found in full at www.ahdb.org.uk



Winter Oilseed rape comparative agronomic descriptions 2023

	Traits & Characteristics	Trial Information	Oil content (%)	Lodging resistance	Stem stiffness	Autumn vigour	Height (cm)	Light leaf spot resistance	Stem canker resistance	Verticillium stem stripe	Earliness of flowering	Earliness of maturity	Launch year	Data source
PT303	Protector® Sclerotinia, Verticillium Stem Stripe, TuYV, Rlm7	AHDB UK Recommended, 2023	45.7	8	8	6.0	159	7	6	PR	5	5	2021	1/4
PT279CL	Clearfield®	AHDB East/West Recommended, 2022	44.8	8	8	6.5	152	5	5	nd	6	6	2018	1
PX141	Maximus® Semi-Dwarf	NEW, UK National Listed, 2022	43.5	9	9	6.1	114	6	7	nd	2	6	2023	2
PX131	Maximus® Semi-Dwarf, TuYV	AHDB UK Described, 2023	46.1	8	9	6.1	111	7	6	nd	6	4	2019	1
PX125CL	Maximus® Semi-Dwarf Clearfield®	UK National Listed, 2020	44.2	8	8	nd	124	6	5	nd	4	6	2021	2/3
PT284	Protector® Clubroot	UK National Listed, 2018	45.1	9	8	6.4	150	6	7	nd	5	5	2019	2
PT315	Pod Shatter Resistance, TuYV, High Oil, Rlm7	UK National List Trials 2020-2022	Data available after addition to the UK National List											
PT312	Protector® Sclerotinia, Pod Shatter Tolerance, TuYV, High Oil	UK National List Trials 2020-2022	Data available after addition to the UK National List											

1 = AHDB Database; 2 = UK National List Trial Results; 3 = Pioneer Research Data; 4 = ADAS

TuYV = Turnip Yellow Virus resistance; PR = Partially Resistant; nd = no data; Rlm = Phoma resistance type

PT303 is the first winter oilseed rape hybrid to offer growers in the UK and Ireland top level yields with built-in tolerance to Sclerotinia

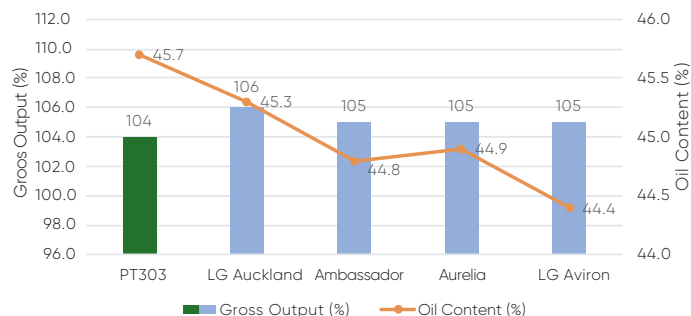
- Gross Output of 104% on AHDB UK Recommended List
- Sclerotinia tolerance
- Verticillium stem stripe tolerance
- Turnip yellows virus (TuYV) resistance
- Strong autumn vigour and spring regrowth
- Light Leaf Spot 7, Stem Canker 6
- Phoma resistance from Rlm7 and horizontal quantitative genetic resistance
- Unique growth habit and genetics spreads risk from damaging late season stalk-based disease
- Later flowering – earlier maturing combination
- Large stature with good lodging resistance and stem stiffness



A top gross output

PT303 has an impressive UK gross output yield on the AHDB Recommended List of 104%. This high gross output is derived from a very high seed yield and the highest oil content of any AHDB UK listed variety.

Gross output and oil content of PT303 versus selected varieties AHDB UK recommended list 2023

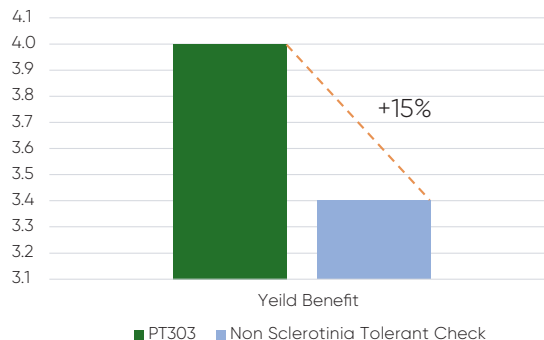


Sclerotinia tolerance

PT303 is the first hybrid to be marketed in the UK with a claim for tolerance to Sclerotinia. This yield sapping disease can reduce yields in commercial situations by up to 30%.

Significant yield loss can occur where flowering fungicide applications are missed or delayed – or just in years when sclerotinia pressure is very high. PT303 Protector Sclerotinia can provide extra support for your crop when this unpredictable and highly damaging disease strikes.

Seed yield (t/ha)



PT303 Protector® Sclerotinia yielded over 15% more than the non sclerotinia tolerant check over 6 untreated trials*. At £600/t ex farm a 0.6t increase = £360 potential advantage per Ha.

*Pioneer research trials

Sclerotinia infection is largely eliminated from both treated and untreated AHDB trials through comprehensive fungicide applications at flowering. In commercial situations however flowering treatment programmes may be more limited, and applications may be inadvertently mistimed.

Consider that results from trials that are comprehensively treated for disease at flowering time may entirely mask

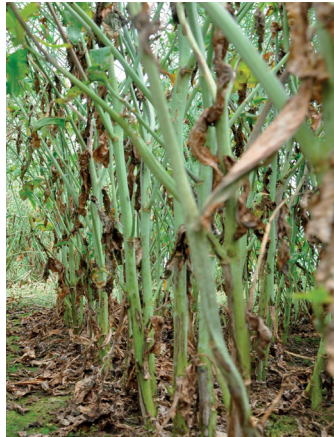
susceptibility to stalk diseases such as sclerotinia and verticillium stem stripe.

PT303 has given very high gross output yields in AHDB UK RL trials even though sclerotinia infection was probably well controlled at all locations. The Sclerotinia tolerance of PT303 is therefore likely to be an additional benefit to its proven performance.

Non-tolerant comparator



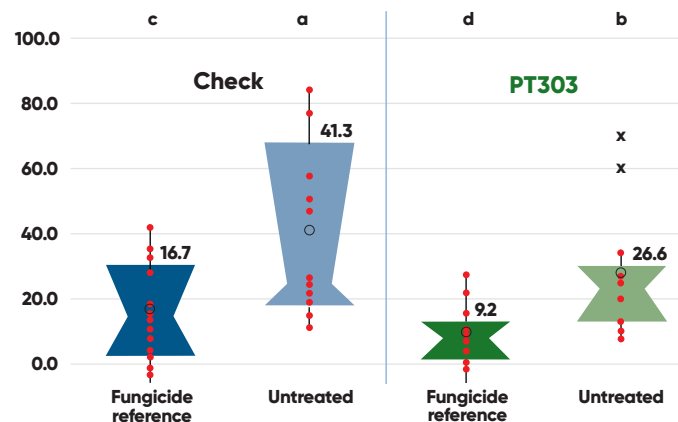
Protector Sclerotinia



Essex 2021

Impact of incidence of sclerotinia infection, 2019-2021

% incidence in 13 trials



Incidence = frequency of stems infected by *Sclerotinia sclerotiorum*.

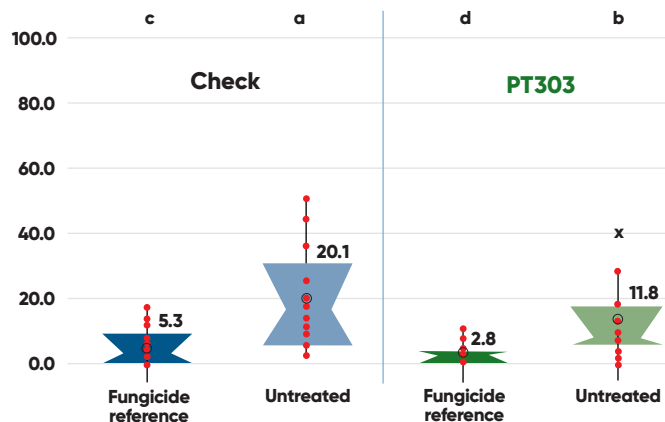
Sclerotinia Protector® significantly reduced the number of infected stems.

Average reduction of 36%.

The variability of infestation of PT303 was significantly less than the check.

Severity of sclerotinia impact, 2019-2021

% severity in 13 trials



Severity = intensity (extent) of *Sclerotinia* lesions.

Sclerotinia Protector® significantly lowered the severity on plant stems.

Average reduction of 42%.

The reduction of the variability of lesions was very marked, even in untreated plots.

The efficacy of the fungicide treatments applied was also improved.

Verticillium stem stripe resistance

ADAS tests at a UK location with a recent history of verticillium have indicated PT303 has partial resistance or tolerance to Verticillium Stem Stripe. When combined with its tolerance to Sclerotinia this gives PT303 a unique potential to reduce the severity of yield robbing stem-based disease at harvest.

ADAS results at this location further independently confirmed the ability of PT303 to quickly establish high levels of ground cover and grow rapidly in both the autumn and spring.

Verticillium stem stripe results

	Ground cover (% of area)	Vigour 20/10/21 (0-10 index*)	Vigour 20/10/21 (0-10 index)	Verticillium stem stripe trial rating
	Scored 20/10/2020	Scored 20/10/2020	Scored 29/03/2021	
PT303	83.80	7.5	7.5	Partially resistant
Quartz	60.00	5.6	5.1	Susceptible
Campus	65.00	6.1	6.3	Moderately susceptible
Flamingo	71.20	6.4	7.6	Partially resistant

Source: ADAS 2021 *0 = lowest; 10 = highest

Verticillium stem stripe pre-harvest assessment

	Verticillium incidence % of plants affected	Verticillium index (0-100 index)	Premature ripening %
PT303	52.0	32.6	40.1
Quartz	81.0	71.2	72.8
Campus	69.0	42.0	48.5
Flamingo	54.0	30.2	35.3

Source: ADAS 2021

Stem health

PT303 stem health at maturity reduces premature senescence and its damaging effect on yield.

PT303



Leading competitor



Light leaf spot and stem canker

PT303 has broad agronomic strengths. It provides a resistance score of 7 for both light leaf spot and stem canker and its base disease resistance package makes it suited to any location.

Phoma resistance is derived from both Rlm 7 and horizontal quantitative sources ensuring it is appropriate for high pressure situations.

Turnip yellows virus (TuYV) resistance

PT303 has TuYV resistance confirmed by GEVES in France.

PT279CL

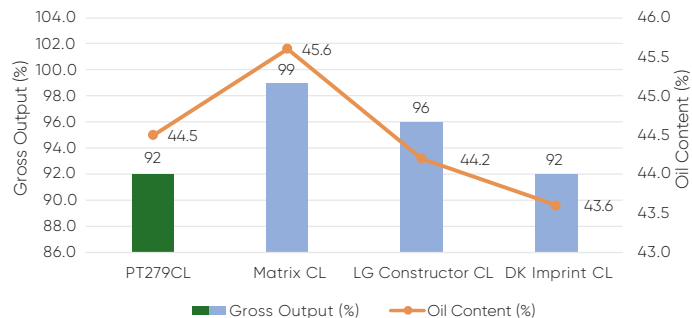


The first Clearfield hybrid to be added to the AHDB Recommended List. PT279CL has maintained its position on the East/West Recommended List and is a commercially proven Clearfield type.

With a high oil content and stiff straw, PT279CL has provided growers with high harvestable yields since first being listed on the AHDB Recommended List.



Gross output and oil content of PT279CL versus other Clearfield hybrids



Comparative agronomic scores

PT279CL and other Clearfield® hybrids 2023 AHDB RL

	PT279CL	Matrix CL	LG Constructor CL	DK Imprint CL
Oil Content (%)	44.5	45.6	44.2	43.6
Light Leaf Spot Resistance	5	6	6	6
Stem Canker Resistance	5	8	6	7
Turnip Yellows Virus Resistance	-	R	R	-
Resistance to Lodging	8	8	8	8
Stem Stiffness	8	8	8	7
Plant Height (cm)	147	152	143	153
Earliness of Flowering	6	7	6	6
Earliness of Maturity	6	6	6	6

Source: AHDB 2022 UK RL

On the 1-9 scales, high figures indicate that a hybrid shows the character to a higher degree; R = Resistance

PT284



PT284 combines the Pioneer Clubroot Protector resistance trait with market leading disease resistance scores for the best infield protection. Choose PT284 for better early vigour.

Agronomic Profile

Oil Content	45.1%
Light Leaf Spot Resistance	6
Stem Canker Resistance	7
Lodging Resistance	9
Plant Height (cm)	150
Earliness of Maturity	5

Source: UK Official Data.



PX125CL



PX125CL is the only Maximus Clearfield hybrid available in the UK. The combination of the Maximus semi-dwarf plant type and the tolerance to Clearfield herbicides provides growers with unique benefits.

Agronomic Profile

Oil Content	44.2%
Light Leaf Spot Resistance	6
Stem Canker Resistance	5
Lodging Resistance	9
Plant Height (cm)	124
Earliness of Maturity	4

Source: Pioneer Research Data.



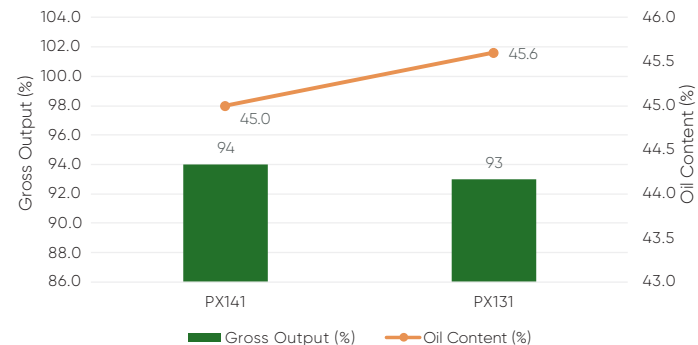
PX131 is the only semi-dwarf hybrid on the 2023 AHDB Descriptive List.

This unique product type provides growers with the highest level of standing power and the greatest ease of combining.



- Maximus® semi-dwarf hybrids such as PX131 are suited to sowing in high fertility situations where the risk of lodging is high.
- Harvesting is fast and efficient due to the lower level of biomass
- Their spreading growth habit in the autumn significantly reduces the chance of winter kill

Gross Output & Oil Content of PX141 versus PX131 – UK Official Trials 2019–2021



PX141 is a new Maximus semi-dwarf hybrid for 2023 sowing.

PX141, like other Maximus semi-dwarf hybrids, provides growers with the highest level of standing power and the greatest ease of combining.

- Higher seed yield than PX131
- Taller than PX131
- Higher stem canker resistance than PX131
- Better stem stiffness than PX131

Comparative agronomic scores PX141 vs PX131

	PX141	PX131
Oil Content (%)	43.5	45.2
Light Leaf Spot Resistance	6	7
Stem Canker Resistance	7	6
Turnip Yellows Virus Resistance	–	R
Resistance to Lodging	9	9
Stem Stiffness	9	8
Plant Height (cm)	114	101
Earliness of Flowering	2	4
Earliness of Maturity	6	5

Source: UK Official Trial Results 2019–2021

On the 1 – 9 scale a higher figure indicates the character is shown to a higher degree, R = Resistance





Pioneer WOSR seed is available with either LumiGEN™ Standard treatment or LumiGEN™ Insecticide treatment. LumiGEN™ Standard includes the fungicide Integral Pro and the Pioneer growth promoter treatment Lumibio Kelta. LumiGEN™ Insecticide additionally includes the insecticide Lumiposa®.

**LumiGEN™**

Lumiposa®

SEED APPLIED INSECTICIDE

Your key Pioneer contacts

For all enquiries about Pioneer Winter Oilseed Rape contact your local Corteva Representative. Their experience and local advice is available to help you maximise your success.

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