

Hyola 970CL



Australia's earlier maturing Graze n Grain
Winter CL canola hybrid from Pacific Seeds



Hybrid Attributes

Hyola® 970CL has provided growers with up to \$2000/ha grazing value combined with \$2500/ha harvested grain value.

February-April sowings, it can produce 2.5 to 5.0t/ha of high quality forage for grazing in autumn and winter.

Readily eaten by sheep, good live-weight gains can be achieved (210g to 300g/day for Merino lambs).

600-800 DSE grazing days/ha or 2000 grazing days with early sown winter types, which is a great advantage over spring types sown in their normal window.

Very high blackleg rating of R unique group – Perfect for rotating resistance in Australia.

Clearfield® is a registered trademark of BASF

(P) Indicates provisional rating and blackleg groups from Pacific Seeds blackleg nurseries and R gene screening

Indicates observed visual rating from Pacific Seeds R&D internal replicated research trial evaluations

**Indicates observed visual rating from Pacific Seeds R&D internal replicated trial evaluations comparing Hyola product*

^ Indicates calculated weight rating from Pacific Seeds R&D internal replicated research trial evaluations

Scale: 1 = poor - 9 = best

Yield adaptability	2.0 - 6.5t/ha
Blackleg rating	R
Blackleg groups	H
Oil potential	Mid - high
Herbicide tolerance	CL
Maturity	Late
Plant vigour	9
Plant height	Tall
#Lodging resistance	9
*Shatter tolerance	8
^Hectolitre weight	8
Growing regions	NSW, SA, Vic, WA
Irrigation/dryland	Both
Alternative to	Phoenix CL SF Edimax CL SF Nizza CL

Winter CL Canola Trial Results Summary

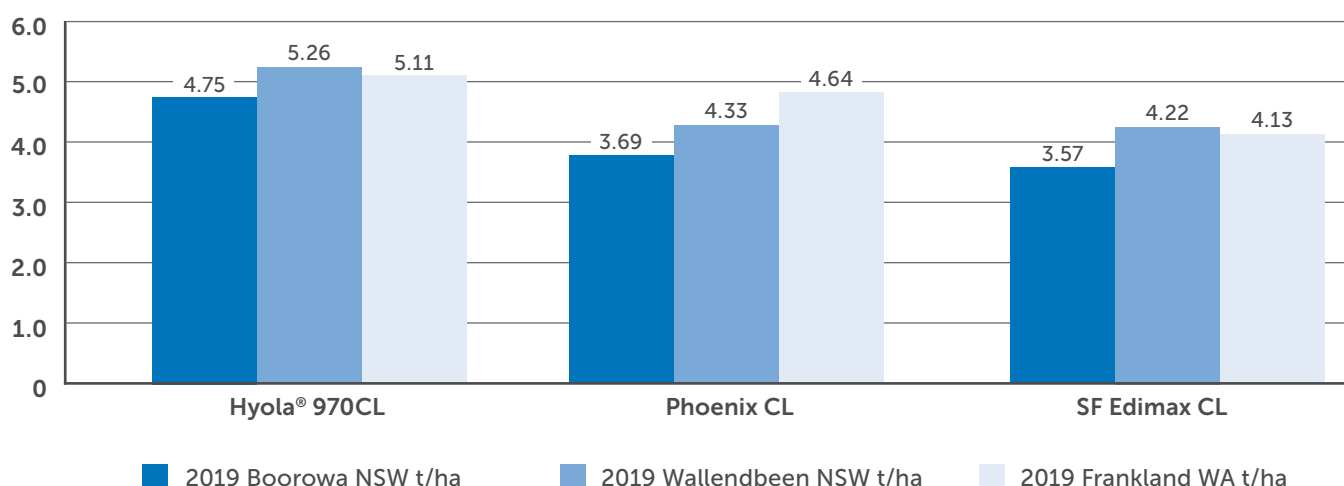
PERFORMANCE TRAIT	2019 PACIFIC SEEDS REPLICATED CANOLA TRIAL SUMMARY OF RESULTS
Dry Matter Production (t/ha) & Hay Value (\$/ha)	*Hyola 970CL hybrid provides an average of over 5000kg of DM per ha which is up to 1000kg/ha higher DM grazing production than Phoenix CL & SF Edimax CL. Hyola 970CL extra DM effectively provides \$200/ha extra Hay value than Phoenix CL & SF Edimax CL based on Hay value at \$275/t
Lamb Yield(\$/ha)	*Hyola 970CL also provides an extra \$250-\$350/ha gross income from Lamb Yield \$/ha (100g/day meat @\$7.00/kg) when compared to Phoenix CL and SF Edimax CL based on 30kg lambs @1.2kg DM/hd/day
Grain Yield(t/ha)	#Hyola 970CL has shown in replicated trials between 200kg-400kg higher harvested grain yields than Phoenix CL and SF Edimax CL
Oil % Content & Gross Returns (\$/ha)	#Hyola 970CL has demonstrated between 0.5 to 1% higher oil % content than Phoenix CL and SF Edimax CL. #Hyola 970CL has shown between \$100-\$200/ha higher gross income from additional grain yields than Phoenix CL and SF Edimax CL
Blackleg Resistance	Hyola 970CL has the highest Blackleg rating of "R" for Adult resistance with a unique Resistance group "H" making it the choice Graze n Grain Winter canola hybrid for effective blackleg resistance rotational management

*Source: 3 replicated trials conducted across Australia in 2019.

Source: 7 replicated trials conducted by independent service providers across Australia in 2019.

Hay values and Lamb yields were based on calculation guidelines from data sourced; www.riagronomy.com.au

Hyola 970CL Tops 2019 Mean Dry Matter t/ha across 3 Winter CL Replicated Trials vs Competitors



2019 Pacific Seeds Replicated Hyola Technical Extension Trials evaluating Winter CL hybrids. DM in t/ha was measured from 1m² cuts taken from all 3 replicates of all 3 locations being Boorowa NSW, Wallendbeen NSW and Frankland in WA. Feed Test studies and Analysis was conducted by Feed Central in Toowoomba, Qld.

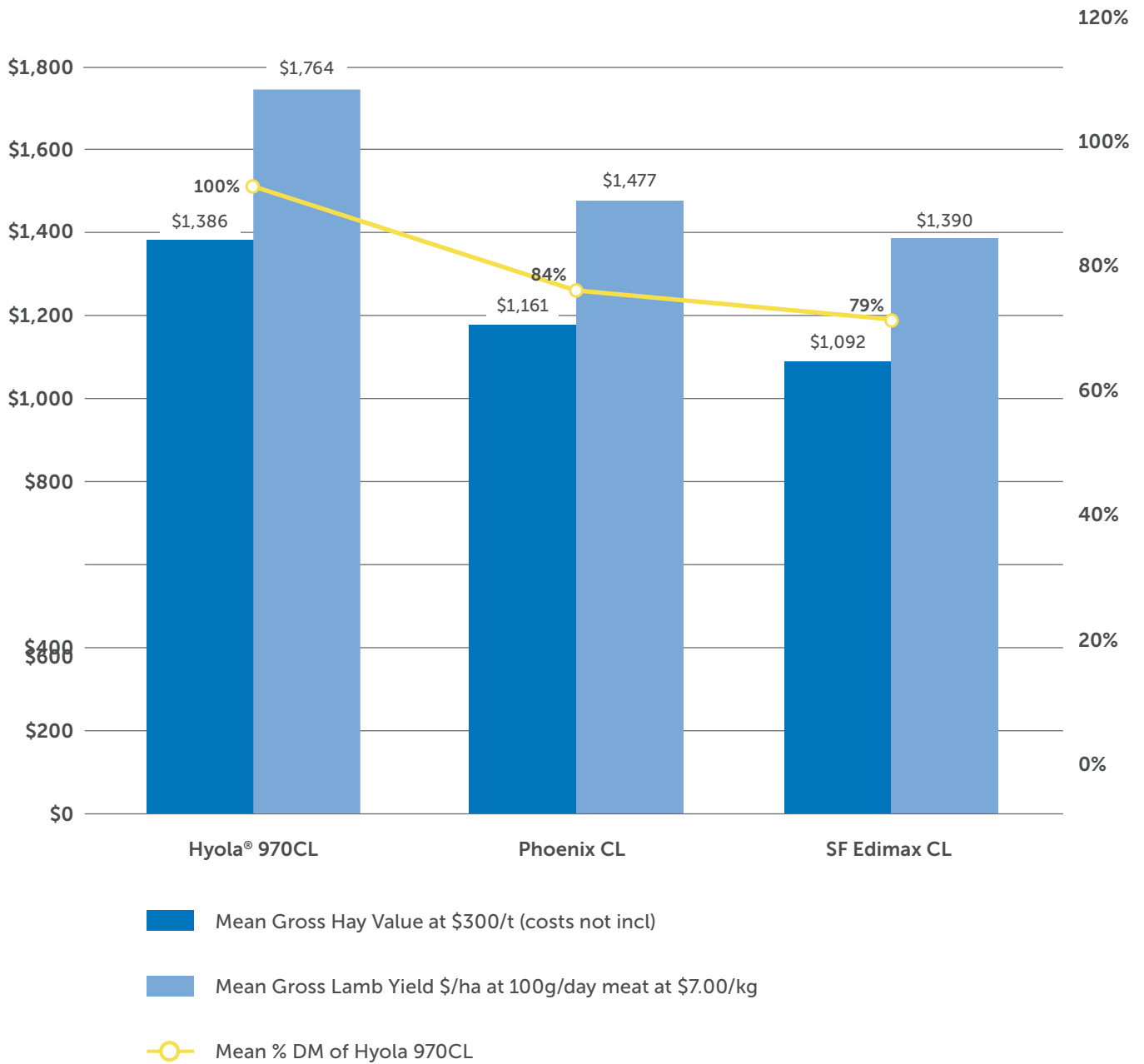
Winter CL Trial Feed Quality Analysis Summary

PERFORMANCE	GROWTH STAGE	PLANT COMPONENT	MEAN DRY MATTER (KG/HA)	MEAN AVAILABLE PROTEIN (%)	MEAN ME (MJ/KG.DM)	% TDN
Hyola® 970CL	Vegetative	Bulk – Stem, Leaf, Midrib, Lamina	5040	20.53	11.53	68.97
Phoenix CL	Vegetative	Bulk – Stem, Leaf, Midrib, Lamina	4220	21.73	11.50	68.37
Edimax CL	Vegetative	Bulk – Stem, Leaf, Midrib, Lamina	3970	22.17	11.53	68.43

PERFORMANCE	GROWTH STAGE	PLANT COMPONENT	% NDF	% WSC	% LIGNIN	% STARCH
Hyola® 970CL	Vegetative	Bulk – Stem, Leaf, Midrib, Lamina	31.90	22.17	3.83	3.87
Phoenix CL	Vegetative	Bulk – Stem, Leaf, Midrib, Lamina	29.73	22.57	4.13	4.13
Edimax CL	Vegetative	Bulk – Stem, Leaf, Midrib, Lamina	30.00	19.10	4.07	4.37

2019 Pacific Seeds Replicated Hyola Technical Extension Trials evaluating Winter CL hybrids. Harvested plant biomass DM in t/ha was measured from 1m² cuts taken from all 3 replicates of all 3 locations being Boorowa NSW, Wallendbeen NSW and Frankland in WA. Feed Test studies and Analysis was conducted by Feed Central in Toowoomba, Qld.

Hyola 970CL Tops 2019 Mean Gross Hay Value (\$/ha) and Lamb Yield (\$/ha) across 3 locations



2019 Pacific Seeds Replicated Hyola Technical Extension Trials evaluating Winter CL hybrids. DM in t/ha was measured from 1m² cuts taken from all 3 replicates of all 3 locations being Boorowa NSW, Wallendbeen NSW and Frankland in WA. Feed Test studies and Analysis was conducted by Feed Central in Toowoomba, Qld. Hay values and Lamb yields were based on calculation guidelines from data sourced: www.riagronomy.com.au

Winter CL Trial Feed Comparison Summary

FEED VALUE COMPARISON BETWEEN 2019 WINTER HYBRID CLEARFIELD® TYPES									
HYBRID VARIETY HERBICIDE TECHNOLOGY	ACTUAL MEAN DRY MATTER YIELD – 3 TRIALS	MEAN % DM OF HYOLA 970CL – 3 TRIALS	GROSS HAY VALUE AT \$275/T (COSTS NOT INC)	GRAZING YIELD 60% (LESS 40% RESIDUAL LOSS)	30KG LAMBS AT 1.2KG DM/HD/DAY #ASSUMES PLANTS ARE ACTIVELY GROWING			LAMB YIELD \$/HA AT 100G/DAY MEAT AT \$7.00/KG	EQUIVALENT GRAIN YIELD REQUIRED AT \$600/T
					#30 DAYS	#60 DAYS	#90 DAYS		
CLEARFIELD®	(KG/HA)	% DM	\$/HA	KG/HA DM	LAMBS/HA			\$/HA	KG/HA DM
Hyola® 970CL	5,040	100%	\$1,386	3,024	84	42	28	\$1,764	2.9
Phoenix CL	4,220	84%	\$1,161	2,532	70	35	23	\$1,477	2.5
Edimax CL	3,970	79%	\$1,092	2,382	66	33	22	\$1,390	2.3

2019 Pacific Seeds Replicated Hyola Technical Extension Trials evaluating Winter CL hybrids. Harvested plant biomass DM in t/ha was measured from 1m² cuts taken from all 3 replicates of all 3 locations being Boorowa NSW, Wallendbeen NSW and Frankland in WA.

Feed Test studies and Analysis was conducted by Feed Central in Toowoomba, Qld. Hay values and Lamb yields were based on calculation guidelines from data sourced: www.riagronomy.com.au

2019 - 2020 Mean Gross Hay Value (\$/ha) and Lamb Yield (\$/ha) across 5 locations

HYBRID VARIETY	LOCATION	HYOLA® 970CL	PHEONIX CL	EDIMAX CL	MEAN	CV	LSD
YIELD T/HA	Kojonup WA	1.13	0.97	1.02	1.17	17.50	0.35
	Frankland WA	3.07	2.77	2.70	2.50	15.20	0.65
	Cummins SA	1.35	1.05	0.45	1.20	18.28	0.40
	Wallendbeen NSW	0.69	0.57	0.52	0.46	21.95	0.18
	Boorowa NSW	0.89	0.77	0.72	0.77	11.36	0.15
	Shepparton VIC	2.03	1.84	1.66	1.85	9.64	0.30
	Lake Bolan VIC	4.13	3.95	3.65	3.61	7.21	0.44
	Mean	1.90	1.70	1.53			

HYBRID VARIETY	LOCATION	HYOLA® 970CL	PHEONIX CL	EDIMAX CL	HYOLA® 970CL F2
MEAN OIL %	Kojonup WA	42.1	42.1	42.0	40.7
	Frankland WA	44.9	44.6	45.5	43.1
	Cummins SA	42.7	40.7	39.5	42.1
	Wallendbeen NSW	38.3	38.1	37.7	36.9
	Boorowa NSW	39.3	39.9	39.4	38.5
	Shepparton VIC	41.3	39.3	39.3	38.6
	Lake Bolan VIC	43.8	45.1	43.3	43.3
	Mean	41.8	41.4	41.0	40.5

2019 Pacific Seeds Replicated Hyola Technical Trials evaluating Winter CL hybrids. Grain Yield in (t/ha) and Oil% DM in t/ha was measured from all 3 replicates of all 7 locations being Boorowa NSW, Wallendbeen NSW, Shepparton Vic, Lake Bolac Vic, Cummins SA, Kojonup WA and Frankland in WA.

Winter Canola Recommended Growing Regions

PRODUCTION STATE	WINTER HYBRID – HYOLA 970CL RECOMMENDED GROWING REGIONS
NSW/QLD	Central Tablelands, Southern Slopes & Tablelands, MIA irrigation zones, and Riverina
VIC	Western Districts, Central Districts, Wimmera, North East, Irrigation zones and Gippsland
TAS	Southern, Central and Northern Midlands, up to Wynyard on the North West Coast and into the Derwent Valley
SA	South East, Mid North, irrigation zones, Lower Eyre Peninsula & Kangaroo Island
WA	South Western, Southern Coastal, Irrigation zones and Central/Northern Coastal regions

Agronomic Management of Winter Hybrids

In general, the choice of variety for specific sowing dates, regions and grazing management will be the key to maximising the dual-purpose value of canola. Significant forage for grazing can be produced by sowing Winter Hybrid canola types early, without compromising yield, as has been demonstrated for dual-purpose wheat.

AGRONOMY	SPRING SOWN GRAZE N GRAIN	AUTUMN SOWN GRAZE N GRAIN	AUTUMN SOWN GRAIN ONLY
Sowing dates	3rd week Sept to end of Dec. Don't sow into Jan to early Feb, as excessive heat can affect emerging plants and growth	3rd week Feb to 2nd week April. After mid April best to sow regular Spring Hybrids	3rd week Feb to 2nd week April. After mid April best to sow regular Spring Hybrids
Sowing rates	3kg/ha to 4kg/ha	2.5kg/ha to 3.5kg/ha	2.5kg/ha to 3.5kg/ha
Sowing depth	15-20mm Normal canola sowing depth	15-20mm Normal canola sowing depth	15-20mm Normal canola sowing depth
Soil types	Suited to light sands to clay loams to heavy clays.	Suited to light sands to clay loams to heavy clays.	Suited to light sands to clay loams to heavy clays.
Herbicide tolerance	Clearfield Technology	Clearfield Technology	Clearfield Technology
Rainfall zones	High (500mm+ or irrigation)	Med-high (450mm+)	Med-high (450mm+)
Seed treatments	Cruiser® Opti + Maxim® XL	Cruiser® Opti + Maxim® XL	Cruiser® Opti + Maxim® XL
Target plants/m²	30 to 60/m ² Sowing rate depends on potential grazing intensity and factors such as insects, stubble loads, moisture and soil type. Spring sowing plant losses can be as high as 30%	30 to 40/m ² Sowing rate depends on potential grazing intensity and factors such as insects, stubble loads, moisture and soil type	25 to 30/m ² Sowing rate depends on factors such as insects, stubble loads, moisture and soil type

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