

# HYOLA 970CL vs F2 GROWER RETAINED SEED



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# HYOLA 970CL vs F2 Grower Retained Seed





#### \delta Clearfield

Australia's most trusted and reliable Graze n Grain Winter CL canola hybrid from Pacific Seeds

#### HYBRID ATTRIBUTES

Hyola<sup>®</sup> 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.



| Yield adaptability  | 2.0 - 6.5t/ha                               |
|---------------------|---|
| Blackleg rating     | R   |
| Blackleg groups     | Н   |
| Oil potential       | Mod-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  |
| Alternatives to     | Phoenix CL, SF<br>Edimax CL, SF<br>Nizza CL |

(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 replicated trial evaluations comparing Hyola products
^ Indicates calculated weight rating from Pacific Seeds R&D internal replicated research trial evaluations
Scale: 1 = poor - 9 = best

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#### WINTER CL CANOLA TRIAL RESULTS SUMMARY HYOLA 970CL HYBRID vs FARMER RETAINED F2 SEED

|   | Performance<br>Trait                                     | 2019 Pacific Seeds Replicated Canola Trial Summary of Results   |
|---|--|---|
|   | Dry Matter<br>Production (t/ha)<br>& Hay Value (\$/ha)   | **Hyola 970CL higher biomass hybrid provides an average of over 5000kg of Dry matter per ha<br>which is up to 1500kg/ha (40%) higher DM grazing production than Grower Retained F2 seed<br>from Hyola 970CL. *Hyola 970CL extra Dry Matter effectively provides over \$400/ha extra Hay<br>value than Grower Retained F2 seed from Hyola 970CL based on Hay value at \$275/t. |
|   | Lamb Yield<br>(\$/ha)                                    | *Hyola 970CL also provides an extra \$500/ha gross income from Lamb Yield \$/ha (100g/day<br>meat @\$7.00/kg) compared to Grower Retained F2 seed from Hyola 970CL based on 30kg lambs<br>@1.2kg DM/hd/day  |
|   | Grain Yield<br>(t/ha)                                    | #Hyola 970CL has shown up to 250kg-600kg (15-45%) higher grain yields than Grower Retained F2 seed from Hyola 970CL   |
| A | Oil% Content<br>& Gross Returns<br>(\$/ha)               | #Hyola 970CL has demonstrated between 0.5 to 1.5% higher oil % content than Grower Retained F2 seed from Hyola 970CL #Hyola 970CL has shown between \$250-\$300/ha higher gross income from additional grain yields than Grower Retained F2 seed from Hyola 970CL   |
| C | Vigor, Biomass,<br>Sterility, Maturity<br>& Plant Height | #Grower Retained F2 seed from Hyola 970CL was measured to have 25% sterile plants along with associated segregation for agronomic traits - lower plant biomass/vigour, up to 30cm variation in plant height, as well as flowering and windrowing maturity ranging from a 7 series to a 9 series   |

\*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 at www.riagronomy.com.au





CANOLA

Hyola 970CL hybrid shows 1000-1500kg/ha DM advantages over Farmer Retained F2 Seed





# CANOLA

#### WINTER CL TRIAL FEED QUALITY ANALYSIS SUMMARY

| Hybrid Variety                  | Growth Stage | Plant Component                      | Mean Dry Matter<br>(kg/ha) | Mean Available<br>Protein (%) | Mean ME<br>(MJ/kg.DM) | % TDN    |
|---------------------------------|--------------|--------------------------------------|----------------------------|-------------------------------|-----------------------|----------|
| Hyola® 970CL<br>Hybrid          | Vegetative   | Bulk - Stem, Leaf,<br>Midrib, Lamina | 5040                       | 20.53                         | 11.53                 | 68.97    |
| Hyola 970CL F2<br>Retained Seed | Vegetative   | Bulk - Stem, Leaf,<br>Midrib, Lamina | 3550                       | 19.72                         | 11.10                 | 66.93    |
|                                 |              |                                      |                            |                               |                       |          |
| Hybrid Variety                  | Growth Stage | Plant Component                      | % NDF                      | %wsc                          | % Lignin              | % Starch |
| Hyola® 970CL<br>Hybrid          | Vegetative   | Bulk - Stem, Leaf,<br>Midrib, Lamina | 31.90                      | 22.17                         | 3.83                  | 3.87     |
| Hyola 970CL F2<br>Retained Seed | Vegetative   | Bulk - Stem, Leaf,<br>Midrib, Lamina | 30.53                      | 19.50                         | 4.30                  | 4.9      |

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.





CANOLA

Hyola 970CL Hybrid vs F2 Retained Seed Gross Hay Value (\$/ha) and Lamb Yield (\$/ha)



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



**GANOLA** 

|                             | FEED VA             | LUE COMPA                      | RISON BET          | WEEN 2019            | WINTER H  | IYBRID CLI                     | EARFIELD®             | TYPES                     |      |
|-----------------------------|---------------------|--------------------------------|--------------------|----------------------|---|--------------------------------|-----------------------|---------------------------|------|
| Hybrid Variety<br>Herbicide |                     | Mean % DM<br>of Hyola          | Gross Hay<br>Value | Grazing<br>Yield 60% | 30kg lambs @1.2kg DM/hd/day<br>#Assumes plants actively growing |                                | Lamb Yield<br>\$/ha @ | Equivalent<br>Grain Yield |      |
| Technology Trials Trials    | (costs not<br>incl) | (less 40%<br>residual<br>loss) | #30 days           | #60 days             | #90 days  | 100g/day<br>meat<br>@\$7.00/kg | required @<br>\$600/t |                           |      |
| Clearfield®                 | (kg/ha)             | % DM                           | \$/ha              | kg/ha DM             |   | lambs/ha                       |                       | \$/ha                     | t/ha |
| Hyola® 970CL                | 5,040               | 100%                           | \$1,386            | 3,024                | 84  | 42                             | 28                    | \$1,764                   | 2.9  |
| Hyola 970CL F2              | 3,550               | 70%                            | \$976              | 2,130                | 59  | 30                             | 20                    | \$1,243                   | 2.1  |

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

F2 Farmer Retained Seed shows approximately 25% steriles as the F2 generation segregates for plant phenology, biomass, vigour, flowering time, fertility, maturity, plant height, yield, oil and blackleg resistance.





**GANOLA** 

Hyola 970CL in Trials shows up to 45% higher Grain Yield (t/ha) vs F2 Retained Seed

| Hybrid Variety           | Yield t/ha | Yield t/ha   | Yield t/ha | Yield t/ha         | Yield t/ha  | Yield t/ha     | Yield t/ha     |      |
|--------------------------|------------|--------------|------------|--------------------|-------------|----------------|----------------|------|
| Location                 | Kojonup WA | Frankland WA | Cummins SA | Wallendbeen<br>NSW | Boorowa NSW | Shepparton Vic | Lake Bolac Vic | MEAN |
| Hyola <sup>®</sup> 970CL | 1.13       | 3.07         | 1.35       | 0.69               | 0.89        | 2.03           | 4.13           | 1.90 |
| Hyola 970CL F2           | 0.63       | 1.91         | 0.88       | 0.25               | 0.54        | 1.56           | 3.39           | 1.31 |
| MEAN                     | 1.17       | 2.50         | 1.20       | 0.46               | 0.77        | 1.85           | 3.61           |      |
| S                        | 17.50      | 15.20        | 18.28      | 21.95              | 11.36       | 9.64           | 7.21           |      |
| ISD                      | 0.35       | 0.65         | 0.40       | 0.18               | 0.15        | 0:30           | 0.44           |      |
|                          |            |              |            |                    |             |                |                |      |
| Hybrid Variety           | Mean Oil % | Mean Oil %   | Mean Oil % | Mean Oil %         | Mean Oil %  | Mean Oil %     | Mean Oil %     |      |
| Location                 | Kojonup WA | Frankland WA | Cummins SA | Wallendbeen<br>NSW | Boorowa NSW | Shepparton Vic | Lake Bolac Vic | MEAN |
| Hyola <sup>®</sup> 970CL | 42.1       | 44.9         | 42.7       | 38.3               | 39.3        | 41.3           | 43.8           | 41.8 |
| Hyola 970CL F2           | 40.7       | 43.1         | 42.1       | 36.9               | 38.5        | 38.6           | 43.3           | 40.5 |
|                          |            |              |            |                    |             |                |                |      |

replicates of all 7 locations being Boorowa NSW, Wallendbeen NSW, Shepparton Vic, Lake Bolac Vic, Cummins SA, Kojonup WA and Frankland in WA 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





#### AGRONOMIC MANAGEMENT OF HYOLA 970CL

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.

# **ANOLA**

| AGRONOMY<br>GUIDELINES | SPRING SOWN<br>GRAZE N GRAIN  | AUTUMN SOWN<br>GRAZE N GRAIN   | AUTUMN SOWN<br>GRAIN ONLY   |
|------------------------|---|--|---|
| Sowing dates           | 3rd Week Sept - End of Dec.<br>Don't sow into Jan to early<br>Feb, as excessive heat can<br>affect emerging plant growth  | 3rd week Feb - 2nd week<br>April. After mid April best to<br>sow regular Spring Hybrids  | 2nd Week Feb - 2nd Week<br>April. After Mid April best to<br>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<br>Normal canola sowing depth   | 15-20mm<br>Normal canola sowing depth  | 15-20mm<br>Normal canola sowing depth   |
| Soil types             | Suited to light sands to clay<br>loams to heavy clays   | Suited to light sands to clay<br>loams to heavy clays  | Suited to light sands to clay<br>loams to heavy clays   |
| Herbicide<br>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       | 20 to 50/m2<br>Sowing rate depends on<br>potential grazing intensity<br>and factors such as insects,<br>stubble loads, moisture and<br>soil type. Spring sowing plant<br>losses can be as high as 30% | 20 to 40/m2<br>Sowing rate depends on<br>potential grazing intensity<br>and factors such as insects,<br>stubble loads, moisture,<br>crop history and soil type | 20 to 30/m2<br>Sowing rate depends on<br>factors such as insects,<br>stubble loads, moisture,<br>crop history and soil type |

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