

2020 VIC Crop Technology Centre - Gnarwarre, Victoria

Sown: 28 April 2020

Harvested: 4 & 29 December 2020

2019 Crop: Barley.

Soil type & management: Grey clay loam

Available Nitrogen (kg/ha) 0-60 cm: 78.2

Colwell P (mg/kg) 0-10 cm: 140.0

pH (CaCl₂) 0-10 cm: 5.2

Organic Carbon (%) 0-10 cm: 2.4

Trial 1. HYC Winter canola screen

Objectives: To examine the suitability of elite commercial and unreleased winter canola cultivars for Hyper-yielding regions

Key points:

- CL82005, now released as Hyola Feast CL was the highest yielding cultivar, with a yield of 3.99 t/ha.
- Hyola Feast CL was > 0.6 t/ha higher yielding than the two other most popular winter canola cultivars in the trial, Edimax CL and Hyola 970CL.
- There were subtle differences between the oil concentration cultivars, but not to the magnitude of the differences in grain yield.

Treatments: 12 cultivars (currently there are 3 commercial cultivars) sown in small plots (half of normal plot length) with 'High input' treatment as per Trial 3.

Table 1. Yield of the variety evaluation trial (t/ha, % site mean) and grain quality results.

Variety	Yield				Grain Quality			
	Yield		Site Mean		Oil		Test wt	
	(t/ha)		(%)		%		kg/HL	
Hyola 970CL	3.34	b-e	101.8	b-e	45.8	abc	66.7	cd
Edimax CL	3.27	b-f	99.6	b-f	45.0	abc	67.4	ab
SF Nizza CL	3.34	b-e	101.8	b-e	46.5	a	65.3	e
CL82003	3.69	abc	112.3	abc	45.3	abc	67.1	bcd
CL82004	2.91	ef	88.6	ef	45.5	abc	68.0	a
CL82005	3.99	a	121.5	a	44.4	cd	65.4	e
CL210003	3.01	def	91.7	def	45.1	abc	67.7	ab
CL210004	2.70	f	82.2	f	45.7	abc	67.8	ab
SF65-056-CL	3.13	c-f	95.4	c-f	45.5	abc	68.2	a
CL210007	2.92	ef	89.0	ef	45.5	abc	67.5	ab
CC210008	3.00	def	91.5	def	45.4	abc	67.4	abc
CC210009	3.52	a-d	107.4	a-d	44.7	bcd	67.2	bcd
Mean	3.28		100.0		45.4		66.9	
LSD 0.05	0.59		18.1		1.5		0.8	
P Val	0.004		0.004		0.039		<0.001	

Table 2. Phenology evaluation, growth stage (0-99) recorded at key points in the season.

	01-Jul	08-Aug	10-Sep	14-Oct	29-Oct
Hyola 970CL	15.0	19.0	31.0	62.0	67.0
Edimax CL	15.0	19.0	51.0	65.0	69.0
SF Nizza CL	15.0	19.0	36.0	64.0	67.0
CL82003	15.0	19.0	36.0	65.0	67.0
CL82004	15.0	19.0	32.0	62.0	67.0
CL82005	15.0	19.0	36.0	64.0	67.0
CL210003	15.0	19.0	51.0	65.0	69.0
CL210004	15.0	19.0	51.0	67.0	71.0
SF65-056-CL	15.0	19.0	31.0	64.0	69.0
CL210007	15.0	19.0	51.0	67.0	67.0
CC210008	15.0	19.0	51.0	65.0	71.0
CC210009	15.0	19.0	51.0	67.0	71.0

Table 2. Details of the management levels (kg, g, ml/ha).

Sowing date:		28-April
Seed Rate:		60 seeds/m ²
Sowing Fertiliser:		100kg/ha MAP
Seed Treatment:		Jockey + Poncho
Nitrogen:	7 July	65 N kg/ha
	21 September	104 N kg/ha
Fungicide:	17 June	Prosaro 450ml/ha
	10 September	Prosaro 450ml/ha