

Trial 2. HYC Spring canola screen

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

Key points:

- Diamond was clearly the fastest cultivar but there were several grouped together at the slower end including the commercial cultivars SF Ignite TT, ATR Wahoo and 45Y25 RR.
- Four cultivars, including ADV Equinox, ADV Galaxy, NCH18Q421 (now Xseed Condor) and AN20RR002 achieved grain yield > 4 t/ha, compared with none in the winter screen trial.

Treatments: 24 cultivars sown in small plots (half of normal plot length) with 'High input' management 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 (t/ha)		Site Mean (%)		Oil (%)		Test wt (kg/HL)		Protein (%)	
Nuseed Diamond (Conventional)	3.32	a-e	99.0	a-e	42.8	b-f	64.6	b-f	18.8	c-h
Nuseed Quartz (Conventional)	3.51	a-d	104.9	a-d	44.1	a-d	64.6	b-f	18.0	f-i
SF Ignite (TT)	3.33	a-e	99.4	a-e	44.2	abc	64.4	b-f	18.9	b-h
HyTTec Trifecta (TT)	2.75	de	82.1	de	39.1	i	65.6	a-d	20.7	ab
HyTTec Trophy (TT)	3.56	a-d	106.3	a-d	42.6	b-f	65.5	a-e	16.6	ij
ATR Wahoo (TT)	3.76	a-d	112.2	a-d	44.7	ab	63.5	f	20.1	a-d
CHYB3668TT (TT)	2.16	e	64.6	e	40.5	f-i	63.7	def	19.5	a-g
ADV Exhilarate (TT)	2.90	de	86.6	de	40.0	ghi	66.6	a	19.6	a-g
ADV Remarkable (TT)	3.13	b-e	93.5	b-e	43.2	b-e	65.6	a-d	21.1	a
ADV Magnificent (TT)	3.10	b-e	92.6	b-e	44.0	a-d	65.7	abc	20.3	abc
ADV Sensational (TT)	2.99	cde	89.3	cde	41.6	d-i	65.6	a-e	20.1	a-d
45Y93 CL (CLF)	2.81	de	84.0	de	39.7	hi	64.0	c-f	17.6	hij
ADV Equinox (CLF)	4.25	ab	126.9	ab	44.2	abc	65.0	a-f	19.2	a-h
ADV Galaxy (CLF)	4.12	abc	123.0	abc	43.4	b-e	64.8	a-f	19.3	a-h
SF65-050CL (Clearfield)	3.46	a-d	103.3	a-d	44.3	abc	65.1	a-f	20.0	a-e
45Y28 (RR)	3.60	a-d	107.6	a-d	41.8	c-h	63.5	f	19.4	a-h
NCH18Q421 (Truflex)	4.17	abc	124.6	abc	43.6	a-d	64.7	a-f	19.6	a-g
NCH18Q551 (Truflex)	3.52	a-d	105.2	a-d	44.6	ab	64.8	a-f	17.7	ghi
Hyola 540XC (Truflex + CLF)	3.57	a-d	106.7	a-d	46.0	a	64.2	b-f	18.8	c-h
InVigor R5520P (Roundup Ready)	2.21	e	66.0	e	41.1	e-i	65.0	a-f	18.1	e-i
AN20RR002 (Truflex)	4.36	a	130.2	a	42.9	b-f	65.5	a-e	18.7	j
45Y91 CL	3.12	b-e	93.3	b-e	44.6	ab	64.0	c-f	19.7	a-f
45Y25 RR	3.82	a-d	114.0	a-d	42.4	b-g	65.9	ab	18.3	d-i
Mean	3.35		100.0		42.8		64.8		19.0	
LSD 0.05	1.19		35.4		2.6		1.9		1.9	
P Val	0.026		0.026		<0.001		0.093		<0.001	

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

	29-Jul	11-Aug	10-Sep
Nuseed Diamond (Conventional)	61.0	63.0	75.0
Nuseed Quartz (Conventional)	53.0	59.0	65.0
SF Ignite (TT)	51.0	59.0	63.0
HyTTec Trifecta (TT)	51.0	60.0	65.0
HyTTec Trophy (TT)	51.0	58.0	65.0
ATR Wahoo (TT)	51.0	60.0	63.0
CHYB3668TT (TT)	50.0	60.0	66.0
ADV Exhilarate (TT)	51.0	60.0	63.0
ADV Remarkable (TT)	53.0	58.0	65.0
ADV Magnificent (TT)	50.0	55.0	63.0
ADV Sensational (TT)	51.0	59.0	63.0
45Y93 CL (CLF)	51.0	50.0	66.0
ADV Equinox (CLF)	51.0	58.0	65.0
ADV Galaxy (CLF)	53.0	59.0	65.0
SF65-050CL (Clearfield)	53.0	61.0	66.0
45Y28 (RR)	53.0	60.0	65.0
NCH18Q421 (Truflex)	53.0	61.0	65.0
NCH18Q551 (Truflex)	51.0	58.0	65.0
Hyola 540XC (Truflex + CLF)	51.0	58.0	65.0
ATR Wahoo (SUB)	50.0	55.0	63.0
InVigor R5520P (Roundup Ready)	51.0	59.0	65.0
AN20RR002 (Truflex)	53.0	59.0	65.0
45Y91 CL	51.0	60.0	65.0
45Y25 RR	51.0	58.0	63.0

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
	29 July	104 N kg/ha
Fungicide:	17 June	Prosaro 450ml/ha
	10 September	Prosaro 450ml/ha