TECHNOTE

Spring 2022
Autumn 2023

CANOLA

HYOLA REGIMENT XC

TruFlex® + Clearfield® Stacked Technology Protecting Growers' Investment & Return

NEW

HYBRID AGRONOMIC ATTRIBUTES

Herbicide Tolerance

Stacked TruFlex® + Clearfield® Tolerance Mid Maturing Hybrid

Plant Vigour

Observed visual ratings from Pacific Seeds Research & Technical Development Trials

8.5 to 9.0

Blackleg Rating

Official Industry Bare Seed Rating of "R"

Blackleg Groups

Official Industry Screened Quad Blackleg Protection Groups:

ADFH

Growing Zones

MRZ-HRZ
Medium-High to High Rainfall Zones

Yield Adaptability

1.75t/ha to 5.0t/ha

Plant Height

Medium-Tall with excellent Lodging Resistance

***Shatter Tolerance & #Hectolitre Weight**

*Observed visual rating compared to other Hyola Hybrids = 8/10

#Calculated weight rating in Pacific Seeds Trials, normal range = 63 to 68 kg/HL.

Oil Potential

High to Very High Grain Oil % Content

Industry Planting Alternative to:

44Y30,
45Y28,
InVigor R 4520P,
Raptor TF,
Condor TF,
DG Bindo TF,
DG Lofty TF,
DG Hotham TF,
Hyola Garrison XC

Pacific Seeds
Growing possibilities

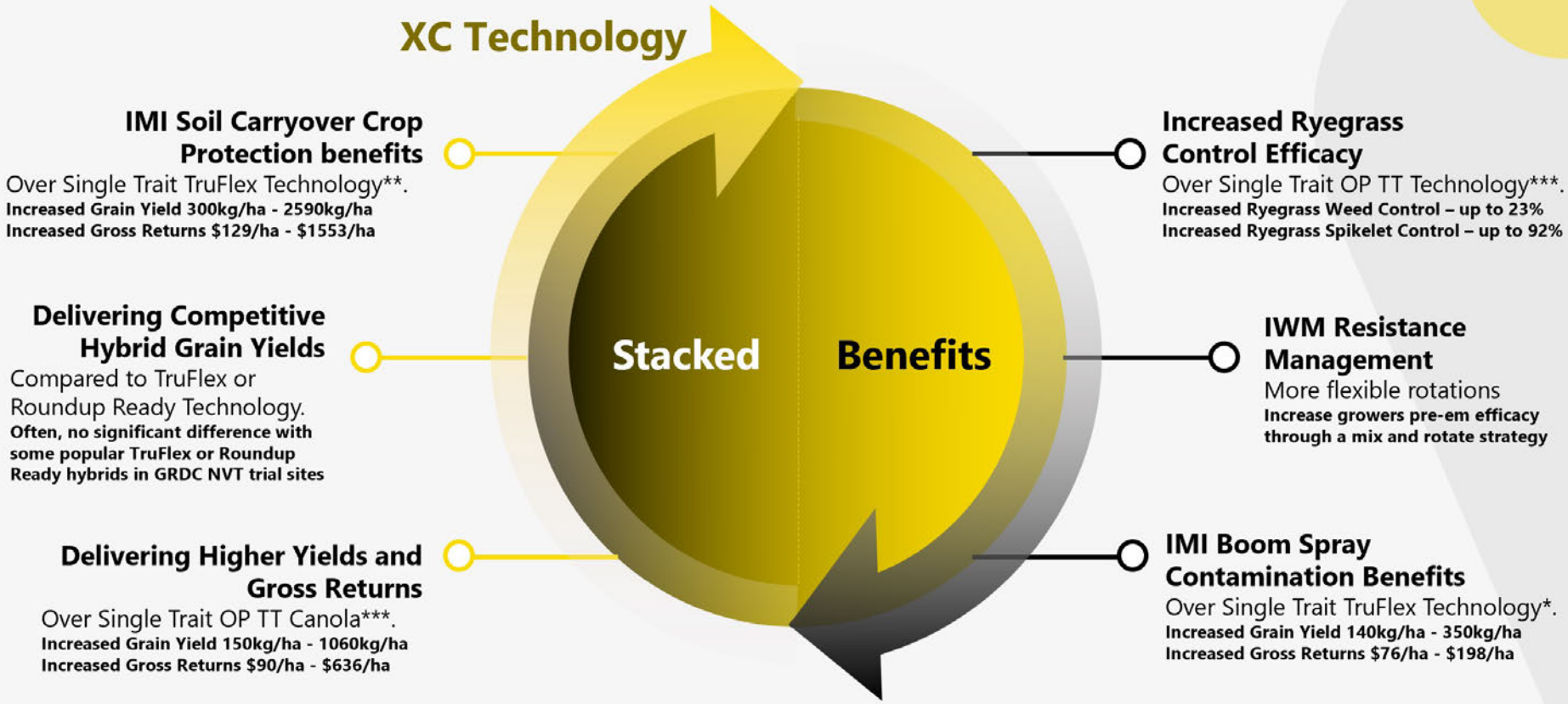
TECHNOTE

Spring 2022
Autumn 2023

CANOLA

HYOLA REGIMENT XC

Delivering Flexible Solution Driven Profits to Canola Growers



Pacific Seeds
Growing possibilities

TECHNOTE

Spring 2022
Autumn 2023

CANOLA

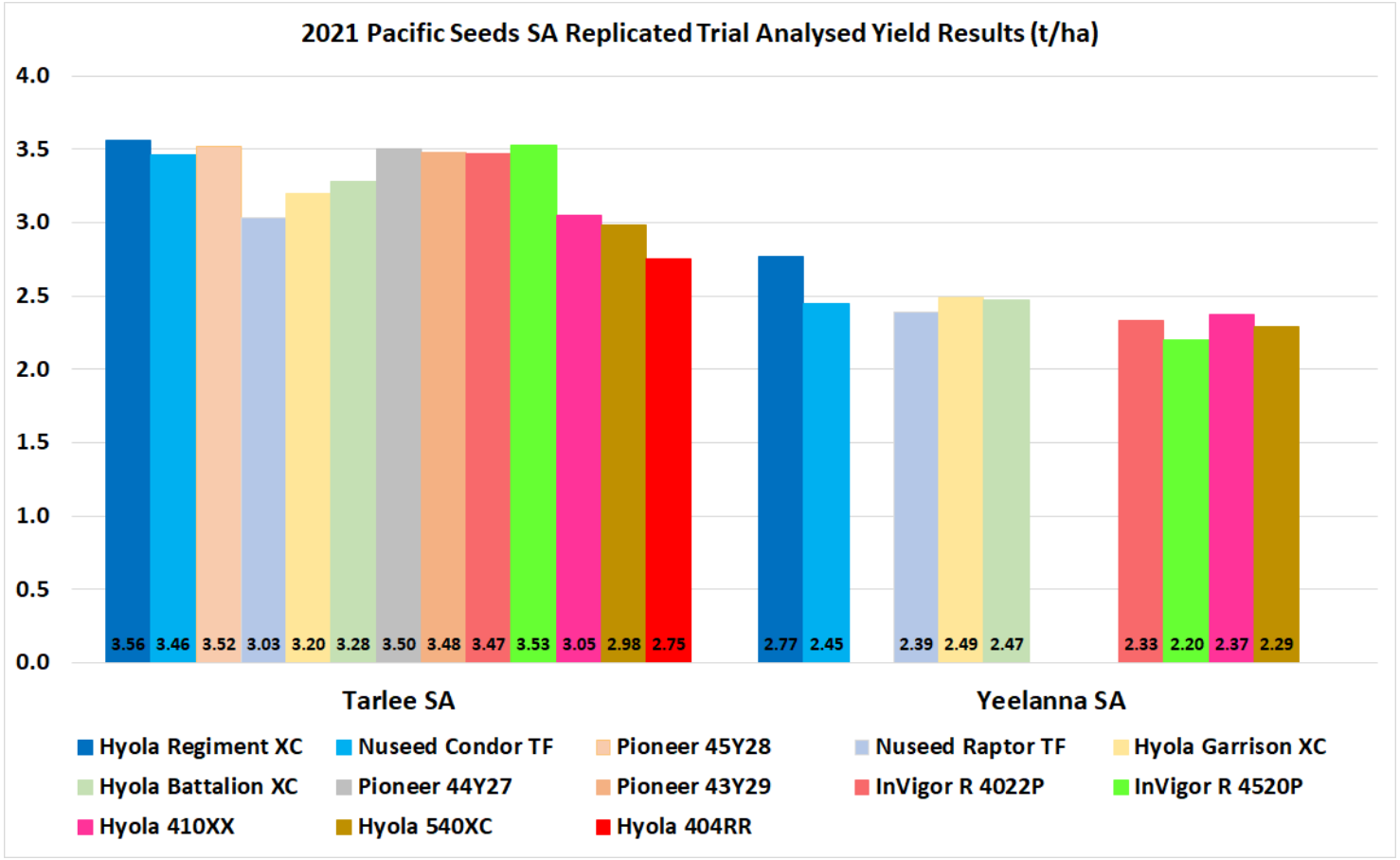
XXCL

TruFlex CANOLA with Roundup Ready® Technology

Clearfield Production System

HYOLA REGIMENT XC

DELIVERING NEW BENCHMARK YIELD LEVELS TO SA GROWERS



Tarlee SA Analysis Summary
CV: 5.957
LSD: 0.278
Mean: 2.897

Yeelanna SA Analysis Summary
CV: 10.378
LSD: 0.387
Mean: 2.321

Pacific Seeds
Growing possibilities

TECHNOTE

Spring 2022
Autumn 2023

CANOLA

XXCL

TruFlex CANOLA with Roundup Ready Technology

Clearfield Production System

HYOLA REGIMENT XC

Hyola® Regiment XC - 2021 Tarlee SA
Trial Analysed Grain Yield of 3.56t/ha

Hyola® Regiment XC - 2021 Yeelanna SA
Trial Analysed Grain Yield of 2.77t/ha

Pacific Seeds
Growing possibilities

TECHNOTE

Spring 2022
Autumn 2023

CANOLA

XXCL

TruFlex CANOLA with Roundup Ready® Technology

Clearfield Production System

HYOLA REGIMENT XC

SA LONG TERM 2017 - 2021 GRDC NVT MRZ - HRZ GLY RESULTS

Grain Yield Color Key:

High to very High Yielding Performance = Consistent Light Green to Darker Green Colors across Locations and Years
Moderate to High yielding Performance = Consistent Yellow to Light Green Colors across Locations and Years
Lower to Moderate Yielding Performance = Consistent Dark Brown to Lighter Brown Colors across Locations and Years

Long Term Results Mid GLY 2017-2021 Variety	Year Mean Yield # Trials	2017 0.00 t/ha 0	2018 0.00 t/ha 0	2019 0.00 t/ha 0	2020 0.00 t/ha 0	2021 2.55 t/ha 3
Nuseed Condor TF	1	GM not tested	GM not tested	GM not tested	GM not tested	118
Pioneer 44Y27 (RR)	3	GM not tested	GM not tested	GM not tested	GM not tested	117
Hyola Regiment XC	3	GM not tested	GM not tested	GM not tested	GM not tested	116
Nuseed Raptor TF	3	GM not tested	GM not tested	GM not tested	GM not tested	116
InVigor R 4520P	3	GM not tested	GM not tested	GM not tested	GM not tested	115
Pioneer 45Y28 RR	3	GM not tested	GM not tested	GM not tested	GM not tested	114
Nuseed Emu TF	3	GM not tested	GM not tested	GM not tested	GM not tested	114
Pioneer 44Y30 RR	3	GM not tested	GM not tested	GM not tested	GM not tested	114
InVigor R 4022P	3	GM not tested	GM not tested	GM not tested	GM not tested	110
Hyola Garrison XC	3	GM not tested	GM not tested	GM not tested	GM not tested	107
Hyola Battalion XC	3	GM not tested	GM not tested	GM not tested	GM not tested	105
Hyola 410XX	3	GM not tested	GM not tested	GM not tested	GM not tested	105
DG Lofty TF	1	GM not tested	GM not tested	GM not tested	GM not tested	105
DG Bindo TF	3	GM not tested	GM not tested	GM not tested	GM not tested	104
VICTORY V55-04TF	2	GM not tested	GM not tested	GM not tested	GM not tested	101

Data Source: 2022 Grains Research and Development Corporation – Please refer to the NVT website for further information.
Long Term Mid GLY NVT 2017 - 2021 Trial Results: Lower EP, Mid North, South East, Yorke Peninsula Growing Environments of SA.
The Multi Environment Trial (MET) analysis produces the most accurate and reliable indicator of future variety performance.
MET analysis results are presented at an individual trial level but combine the robustness of a much larger dataset than the SSA.
The MET analysis is conducted on a five-year dataset that includes trials from a wide range of seasonal and environmental conditions.
The analysis can be conducted on more than 660 plots per variety (as opposed to 3 plots/variety in the SSA) to gain an accurate and reliable result.
This enables growers to select consistently high performing varieties.
The MET analysis cannot be conducted until all trials in a trial series have been harvested. The MET results are published 30 days following harvest of the final trial.

GRDC Grains Research & Development Corporation

GRDC NATIONAL VARIETY TRIALS

Pacific Seeds
Growing possibilities

TECHNOTE

Spring 2022
Autumn 2023

CANOLA

HYOLA REGIMENT XC

SA LONG TERM 2017 - 2021 GRDC NVT LRZ - MRZ GLY RESULTS

Grain Yield Color Key:

High to very High Yielding Performance = Consistent Light Green to Darker Green Colors across Locations and Years
Moderate to High yielding Performance = Consistent Yellow to Light Green Colors across Locations and Years
Lower to Moderate Yielding Performance = Consistent Dark Brown to Lighter Brown Colors across Locations and Years

Long Term Results Early GLY 2017-2021 Variety	Year Mean Yield # Trials	2017 0.0t/ha 0	2018 0.0t/ha 0	2019 0.0t/ha 0	2020 0.0t/ha 0	2 2.00 t/ha 1
InVigor R 4520P	18	GM not tested	GM not tested	GM not tested	GM not tested	108
Hyola Regiment XC	15	GM not tested	GM not tested	GM not tested	GM not tested	105
Nuseed Raptor TF	23	GM not tested	GM not tested	GM not tested	GM not tested	105
Pioneer 44Y30 RR	12	GM not tested	GM not tested	GM not tested	GM not tested	105
InVigor R 4022P	13	GM not tested	GM not tested	GM not tested	GM not tested	104
Pioneer 44Y27 (RR)	14	GM not tested	GM not tested	GM not tested	GM not tested	102
Hyola 410XX	20	GM not tested	GM not tested	GM not tested	GM not tested	98
Hyola Battalion XC	14	GM not tested	GM not tested	GM not tested	GM not tested	97
DG Lofty TF	9	GM not tested	GM not tested	GM not tested	GM not tested	96

Data Source: 2022 Grains Research and Development Corporation – Please refer to the NVT website for further information.

Long Term Early GLY NVT 2017 - 2021 Trial Results: , South East Growing Environments of SA.

The Multi Environment Trial (MET) analysis produces the most accurate and reliable indicator of future variety performance.

MET analysis results are presented at an individual trial level but combine the robustness of a much larger dataset than the SSA.

The MET analysis is conducted on a five-year dataset that includes trials from a wide range of seasonal and environmental conditions.

The analysis can be conducted on more than 660 plots per variety (as opposed to 3 plots/variety in the SSA) to gain an accurate and reliable result.

Pacific Seeds
Growing possibilities

TECHNOTE

Spring 2022
Autumn 2023

CANOLA

XXCL

TruFlex CANOLA with Roundup Ready® Technology

Clearfield Production System

HYOLA REGIMENT XC

SOUTH AUSTRALIA SINGLE SITE GRDC NVT GLY ANALYSED YIELD RESULTS

Grain Yield Color Key:

High to very High Yielding Performance = Consistent Light Green to Darker Green Colors across Locations and Years

Moderate to High yielding Performance = Consistent Yellow to Light Green Colors across Locations and Years

Lower to Moderate Yielding Performance = Consistent Dark Brown to Lighter Brown Colors across Locations and Years

State Region Locality Crop Type Trial ID Variety Name	SA Yorke P Arthurton Canola CHGA21ARTH5 tonnes/ha	SA Mid North Riverton Canola CHGA21RIVE5 tonnes/ha	SA Lower EP Yeelanna Canola CHGA21YEEL5 tonnes/ha	SA South East Keith Canola CLGA21KEIT5 tonnes/ha
Hyola Regiment CL	2.86	3.53	2.23	2.04
DG Bindo TF	2.92	3.19	1.88	-
DG Hotham TF	-	-	-	-
DG Lofty TF	-	3.03	-	2.00
DG 408RR	-	-	-	-
Hyola 404RR	-	-	-	-
Hyola 410XX	2.59	2.98	1.73	1.95
Hyola 540XC	-	-	-	-
Hyola Garrison XC	2.75	3.20	2.15	-
Hyola Battalion XC	2.80	3.06	1.99	2.16
InVigor R 3520	-	-	-	1.93
InVigor R 4022P	3.02	3.13	2.24	2.06
InVigor R 4520P	3.18	3.09	2.09	2.21
InVigor R 5520P	-	-	-	-
Nuseed Condor TF	-	-	2.08	-
Nuseed Emu TF	3.03	3.29	2.15	-
Nuseed GT-53	-	-	-	-
Nuseed Raptor TF	2.97	3.77	2.29	1.96
Pioneer 43Y29 RR	-	-	-	-
Pioneer 44Y27 (RR)	3.16	3.41	2.40	2.04
Pioneer 44Y30 RR	3.29	3.17	2.15	2.04
Pioneer 45Y28 RR	3.14	3.37	2.17	-
VICTORY V5003RR	-	-	-	-
VICTORY V55-04TF	2.77	3.22	-	-
Site Mean (t/ha)	2.93	3.24	2.05	2.04
CV (%)	4.36	3.24	6.93	6.16
Probability	<0.001	<0.001	<0.001	<0.001
LSD (t/ha)	0.21	0.18	0.23	0.22
AnalysisDate	25-Nov-2021	08-Dec-2021	08-Dec-2021	25-Nov-2021
Sowing Date	25-May-2021	27-May-2021	24-May-2021	17-May-2021

Data Source:
2022 Grains Research and Development Corporation – 2021 National Variety GLY Trials. Please refer to the NVT website for further information.

Single Site Trial Results:
The results of the Single Site Analyses (SSA) are available quickly after harvest (about 14 days) to provide growers a descriptive representation of what happened in the environmental conditions ONLY at that trial.
The SSA is conducted on a single trial at a single location in a single season. These results are derived from three variety replicates, tested in one environment, in one year.
The SSA is less accurate and less reliable than the Multi Environment Trial at predicting long term variety performance for a location and should only be considered in context of the season experienced.
The weakness of the SSA is that it has a low reliability to be able to repeat its results. For example, if the environmental conditions changed so would the variety rankings.
Analysed trial yields in tonnes/ha and expressed as % of Trial Mean Yield, Always use LSD values to compare selected varieties in Single sites to determine if any signifcant differences between them

GRDC Grains Research & Development Corporation

GRDC National Variety Trials

Pacific Seeds
Growing possibilities