

Nuseed Emu TF

TIME OF SOWING RECOMMENDATIONS

Early sowing of canola has led to higher yields when using varieties with appropriate phenology, but with the introduction of Nuseed Emu TF growers can sow canola at more traditional sowing dates and match or even better the grain yield of early sown canola. In fact early sowing of Nuseed Emu TF exposes the crop to a greater risk of frost, disease and lower yield compared with sowing at more traditional sowing dates.

To aid management decisions, it is important to understand that canola varieties are influenced by a mix of environmental factors which determine when a variety will reach certain physiological growth stages. These environmental factors include climatic factors such as mean daily temperature, cold accumulation (vernalisation), daylength and moisture.

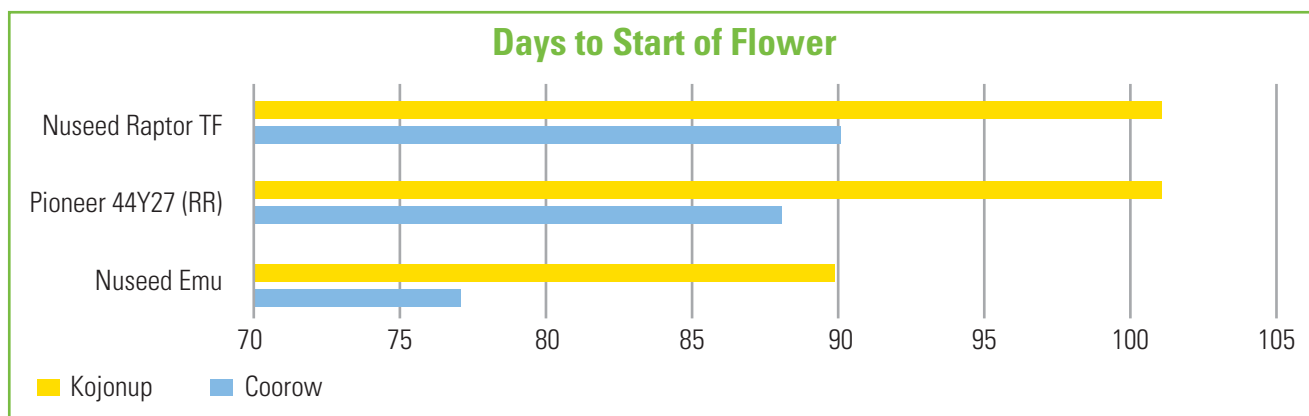
Understanding how a variety is going to respond to the environment allows us to target the optimum flowering window which will minimise the effect frost/heat/moisture stress will have on potential yield and performance. Sowing windows and emergence dates can be managed at a farm level to then target the ideal flowering window for Nuseed Emu TF.

Nuseed Emu TF is a 'spring' canola variety that responds to temperature in a linear way, the warmer it is the faster it develops. When sown in late March or early April, development will be rapid and the crop will flower too early, exposing it to frost and disease risk that lead to potential lower yield. Many other Early/Mid varieties have a small vernalisation response which acts as a handbrake to slow them down when sown early.



Nuseed Emu (left) sown 10th May next to 44Y27 (right) sown 20th April. Note that Emu has caught up and has a higher flowering percentage even with later sowing. Site North Kellerberrin. Photo 22 July 2021.

For comparison on how fast Nuseed Emu TF can be on a May emergence:



Due to the speed of flowering when sown early, Nuseed Emu TF is highly susceptible to frost damage as the flowering window could be during the coldest period of the year, July to August. In targeting a flowering window of mid-August by changing our emergence dates (sowing window), the impact of a cumulation of frost events can be minimised while still giving the variety enough time to flower and pod up before moisture and heat stress begins.

Frost Damage in Canola

Frost damage can influence the canola plant's overall grain yield, oil content and oil quality during key periods of the plant's physiological life. Damage can occur to canola plants during the flowering window and the pod/seed development window. The largest degree of damage to canola is during early pod development while pods have a high concentration of moisture, at this point damage is pod abortion. Frost damage later while pods have formed seeds is more likely to see damage to individual seeds and missing seeds in each pod, not full pod abortion.

DPIRD online point out the average frost incidences across the WA ag zone, of which points out that the Central ag region has a higher chance of frost from August through to October and some zones historically are having more than 12 frosts events over this period.

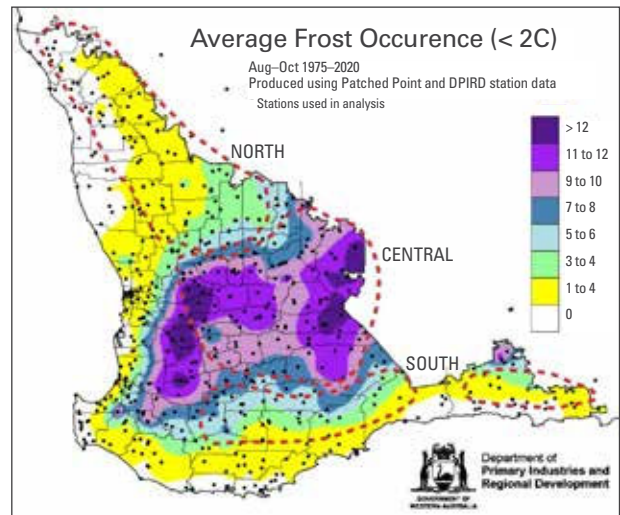
Recommended sowing dates in Western Australia for Fast and Mid flowering canola lines.

These recommendations are based on targeting ideal flowering windows.

Region	Month & Week Phenology	April				May				June	
		1	2	3	4	1	2	3	4	1	2
Northern WA	Mid (Raptor)	Yellow	Green	Green	Green	Red					
	Fast (Emu)			Yellow				Red			
Central WA	Mid		Yellow	Green	Green		Red				
	Fast				Yellow		Green	Red			
Southern WA	Mid		Yellow	Green	Green			Red	Red		
	Fast					Yellow	Green	Green		Red	

- Early sowing: increases the likelihood of frost, disease potential and decrease yield
- Target sowing time
- Late sowing: potential to lead to moisture and heat stress

*Please note the high-risk zones through the central growing region of WA. Data from DPIRD.



<https://www.gga.org.au/activity/frost-now-and-in-the-future/>

Nuseed has set some key flowering windows that should be targeted for the optimum performance in Nuseed Emu TF. These flowering windows will look to minimise the effect a multitude of frosts can have on Nuseed Emu TF while also giving the variety enough time to flower and pod up before heat and moisture stress becomes damaging. These flowering windows can be managed by moving the seeding operations and ultimately the emergence date of Nuseed Emu TF. The following recommendations are based on local knowledge.

MARKET DEVELOPMENT TEAM



Chris Roberts
National Market
Development Manager
M 0437 178 296



Michael Hickey
Regional Market
Development
Manager West
M 0438 913 106



Eleanor Lee
Specialty Oils
Operations Manager
M 0439 354 440

SALES TEAM



Andrew Suverijn
National Sales Manager
M 0409 484 702

WEST



Hugh Trenorden
Regional Sales
Manager – West
M 0437 206 313



Andrew Royce
Area Sales Manager
Southern WA
M 0427 466 916



Callum Pestell
Area Sales Manager
Northern WA
M 0427 168 356



Pippa Reilly
Customer Sales
Representative
M 0436 856 840

General Enquiries and Customer Service: 1800 NUSEED (1800 687 333)
Email: seedorders@nuseed.com
Fax: 1800 302 884



@NuseedAustralia
Follow our Twitter and Facebook page to keep up to date with Nuseed

EAST



Sally Broadhead
Regional Sales
Manager – East
M 0436 849 292



Brett Mawbey
Area Sales
Manager Central
& Southern NSW
M 0428 638 918



James Cook
Area Sales Manager
SA & Southern Vic
M 0430 353 006