

Canola Plant Growth Regulators

There are currently no PGRs registered for use on canola in Australia, although there are products available here intended for alternative purposes that are registered for use as a PGR overseas. **Therefore this information is only presented as experimentation and not for broadacre use.**

With little result last season, we have repeated the trial again looking at alternative timings for the application of the PGRs and two products (Reward or mepiquat and Prosaro) not tested last season.

The PGR treatments are:

1. Cyccocel (Chloremequat) + Tebuconazole (pgr + triazole fungicide)
2. Prosaro (triazole fungicide)
3. Reward (mepiquat)
4. Marvel (trinexapac-ethyl)

The PGRs were applied at either green buds visible or at the beginning of flowering to Garnet canola sown April 24th.

The plots were windrowed on November 2nd and harvested on November 17th.

PGR	Timing	Yield (t/ha)	DM (t/ha)	Plant Ht (cm)	Pod Ht (cm)
None (control)		3.92	11.43	122.7	78.6
Cyccocel + Teb	Budding	3.42	9.32	106.6	67.3
Cyccocel + Teb	Yellow	4.01	12.47	115.4	73.7
Reward	Budding	4.14	11.77	124.4	79.3
Reward	Yellow	3.87	9.13	116.1	71.7
Marvel	Budding	4.11	10.53	115.5	75.2
Marvel	Yellow	3.98	12.58	114.9	78.2
Prosaro	Budding	3.92	12.23	121.4	78.3
Prosaro	Yellow	3.91	12.11	120.9	77.6
	p	0.474	0.370	0.059	0.059
	lsd	NS	NS	NS	NS

DM – Dry matter assessed just prior to windrowing.

Plant Ht – Total length of the plant from the base of the stem to the tip of the plant.

Podding Ht- Length of the podded area on the plant, from first to last pod

All the data presented shows that the PGRs applied had no effect on either yield, total dry matter produced, plant height or depth of podding. The only treatment that may be worth pursuing is the Chloremequat/Tebuconazole mix at an earlier application timing.