BLACKLEG RESEARCH
HOW IS INDUSTRY USING INFORMATION

GRDC
GRAINS RESEARCH & DEVELOPMENT CORPORATION

UM51 SURVEY - 2018

- Canola intensity had increased over 20yrs
- Stubble Management has changed
- Sowing is now earlier
- Nitrogen use has increased
- Fungicide use has increased

2019 LEP MONITORING

	A	B	C	ABD	ABDF	BF	BC	H
Cummins								
Wangary								
Yeelanna								

Low blackleg severity compared to other groups at that site suggesting major gene resistance still effective - Continue with current management strategy.

High blackleg severity compared to other groups at that site – suggests major gene is ineffective and therefore disease control relies on quantitative resistance. If growing cultivars from this resistance group, select cultivar with appropriate blackleg rating for your region – see the Blackleg Management Guide for management options.

CANOLA ON LOWER EP 2019

- Area planted to canola is showing no sign of reducing
- A concentration of 1-3 varieties being grown
- Major gene resistance is largely ineffective
- Early sowing into stubble retained systems
- System is now underpinned by fungicides

SEED DRESSINGS

- Earlier sowing = bigger plants when spores are released
- Seed dressing fungicides running out of efficacy just when the plants need protection?
- Some plans to drop seed dressing/ sow fungicides

EARLY SEASON FOLIAR FUNGICIDES

- Some evidence that agronomists are away from DMI fungicides based on resistance testing.

- Good responses from early season applications of SDHI fungicides in high disease pressure situations.

UCI FOLIAR FUNGICIDES

- Mixed results from later season fungicide applications (targeting UCI)
    - **Causing considerable anxiety**

- But enough good results that some agronomists will apply to fungicides at 20-30% bloom 70% of their program most years (prophylactic?)

WHERE TO FROM HERE

- Fungicides are underpinning blackleg management program
    - **Need a plan for fungicide resistance**

- Need a better understanding of the way that late season environmental conditions are influencing the amount of damage UCI is causing

- Is there a better way to deploy major gene resistance?

- How effective and stable is minor gene (adult plant) resistance?

- Other silver bullets?

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