# MANAGING DISEASE WITH FUNGICIDES

# WHEAT & CANOLA

<u> Wheat – Cereal Fungal Leaf Diseases</u>	<u> Canola – Sclerotinia Stem Rot</u>
Key timing: Full flag leaf	Key timing: 20-30% bloom, counting open
Ideal conditions: Depends on disease, but	flowers and young pods on the main stem
generally high humidity and warm	will help determine flowering stage:
temperatures favour fungal diseases such	10 = 10%, <b>15 = 20%</b> , <b>20 = 30%</b> , >20 = 50%
as tan spot, septoria, and powdery mildew.	Ideal conditions: Moist soil conditions,
Pathogen information: Most overwinter on	changes in humidity, warm temperatures
cereal stubble and are rain-splashed.	(15-25°C)
Infection can occur as long as there is	Pathogen information: Long-lived in the
green tissue available. For cereal rusts,	soil, wide host range, spores can travel
infection is dependent on the arrival of the	long distances
spores from the south.	Additional management strategies:
Additional management strategies: Variety	Biological control, rotation in areas where
selection, rotation, tillage	disease is not established

### <u> Wheat – Fusarium Head Blight</u>

<u>Key timing</u>: Early flower, usually about 3 days after head emergence <u>Ideal conditions</u>: 12 hour period of free moisture (humidity, precipitation), warm temperature (16-30°C) <u>Pathogen information</u>: Overwinters on infected cereal and corn stubble, windborne spores, toxin production

Additional management strategies: Variety selection, rotation, tillage

### **KEY MESSAGES**

### TIMING, TIMING, TIMING!!

-more important than product selection or application method

#### Good coverage and adequate water volume

#### Don't spray in the absence of disease pressure

#### It's all about economics:

Calculate your yield potential and your application costs - is it worth it?