

Cotton Disease Control Guide

Tracey Leven, CRDC

Registration of a pesticide is not a recommendation for the use of a specific pesticide in a particular situation. Growers must satisfy themselves that the pesticide they choose is the best one for the crop and disease. Growers and users must also carefully study the container label before using any pesticide, so that specific instructions relating to the rate, timing, application and safety are noted. This publication is presented as a guide to assist growers in planning their pesticide programs.

If there is any omission from the list of chemicals, please notify the authors.

IMPORTANT – avoid spray drift

Take every precaution to minimise the risk of causing or suffering spray drift damage by:

- Planning your crop layout to avoid sensitive areas, including homes, school bus stops, waterways, grazing land and non-target crops.
- Ensuring that all spray contractors have details of any sensitive areas near spray targets.

- Carefully following all label directions.
- Consulting with neighbours to minimise risks from spraying near property boundaries. Keep neighbours informed of your spraying intentions

Spray Log Books

To assist in record keeping for pesticide applications, Spray Log Books can be purchased from:

- **Qld DAFF, cost \$7.50 each plus postage and handling. Contact Qld DAFF in Toowoomba – 07 4688 1200 or in Dalby – 07 4669 0800 to place an order.**
- **NSW DPI, cost \$12.00 each plus postage and handling. Contact NSW DPI, Yanco – 1800 138 351.**

ABBREVIATIONS USED IN TABLES 35–36

| | |
|-------------------------------|---------------------------------|
| EC = Emulsifiable concentrate | WDG = Water dispersible granule |
| FC = Flowable concentrate | WP = Wettable powder |
| SC = Suspension concentrate | |

TABLE 35: Control of cotton diseases

| Active ingredient | Fungicide chemical group | Concentration and formulation | Application rate of product | Comments |
|---|--------------------------|-------------------------------|---------------------------------|---|
| Alternaria leaf spot | | | | |
| mancozeb | Y | 750 g/kg WG | 2.5 kg/ha | Pima varieties only. Do not apply before flowering. Begin applications as soon as disease symptoms appear and before each infection period. DO NOT apply more than 4 sprays per season. |
| Rhizoctonia solani (Damping off) | | | | |
| tolclofos-methyl | X | 500 g/L SC | 0.12 L/ha or 0.12 L/10km row | QLD and NSW only. Apply as an in-furrow spray or by water injection at time of planting. |
| | | 100g/L | 40g/kg of seed | Put with seed immediately before planting |
| Pythium spp. and Phytophthora spp. (Damping off) | | | | |
| metalaxyl-m | D | 350 g/L EC | 0.1 L/100 kg seed | Commercial application recommended. |
| Rhizoctonia solani and Pythium spp. | | | | |
| azoxystrobin + metalaxyl-m + fludioxonil | K | 75 g/L FC | 0.2 L/100 kg seed | Commercial application recommended. This seed treatment should be used as part of an integrated strategy to control seedling disease. |
| | D | 37.5 g/L FC | | |
| | L | 12.5 g/L FC | | |
| Fusarium Wilt | | | | |
| acibenzolar-s-methyl | | 500 g/L FC | 1.2 mL/100 kg seed | Seed treatment for suppression of Fusarium wilt and Black root rot. |
| metalaxyl-m | D | 350 g/L | 0.043 L/100 kg seed | For Fusarium wilt disinfection. Commercial application recommended. |

TABLE 36: Fungicide trade names and marketers

| Active ingredient | Concentration and formulation | Trade name | Marketed by |
|--|---------------------------------------|----------------------|-----------------------------|
| acibenzolar-s-methyl | 500 g/L FC | Bion Plant Activator | Syngenta |
| azoxystrobin + metalaxyl-m + fludioxonil | 12.5 g/L FC + 37.5 g/L FC + 75 g/L FC | Dynasty | Syngenta |
| mancozeb | 750 g/kg DF, WG | multiple | multiple |
| tolclofos-methyl | 100 g/kg | Rizolex | Sumitomo Chemical Australia |
| | 500 g/L SL | Rizolex liquid | Sumitomo Chemical Australia |
| | 500 g/L SL | Tolex | Genfarm |