



## **PHYTOPHTHORA WARNING**

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Widespread rainfall and flooding has occurred in some of the summer rainfall regions in the eastern part of the country with the possibility of more rain to come for the remainder of the summer according to the South African weather bureau.

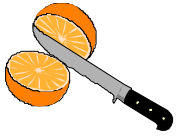
Orchards are under water and in some orchards the soils are waterlogged and water is standing. These wet conditions will enhance the chances of *Phytophthora* infections in the soil that can cause root and collar rot and will also increase brown rot incidence on the early-ripening cultivars. These abnormal wet weather conditions need drastic action and urgent control measures should be taken. This Cutting Edge therefore serves as a warning to all growers to take immediate action.

### Phytophthora root rot control measures:

1. Orchards should be drained immediately, e.g. make furrows to lead the water away.
2. Orchards should be sprayed with a phosphonate foliar spray at the standard registered dosage.
3. Foliar applications should commence as soon as conditions will allow spray machines to move through the orchards.
4. It is suggested that sprays should commence in drier orchards or orchards less affected by the flood water first whilst the rest of the orchards are drying off.
5. The phosphonate application needs a follow up application 8 weeks after the first application.

### Phytophthora brown rot control measures:

1. Registered products: The **contact fungicides** (copper at 200 g / 100 l or mancozeb at 200 g / 100 l), only as a preventive measure against **Phytophthora** brown rot after rainfall. Contact fungicides must be resprayed after any follow-up rainfall.
2. With this current emergency situation applying a **systemic product** (Phosphonate) rather than a contact fungicide should be considered. With the exception of Brilliant none of the phosphonates are currently registered for the control of brown rot. However the registered foliar applications of phosphonates for the control of root and collar rot will also be effective against brown rot. The phosphonates are systemic products and will protect fruit from re-infestation. Adhere to the label instructions.
3. Trials conducted by CRI indicated that the phosphonates are highly effective against *Phytophthora* infections (root, collar and brown rot). Soil drenches and stem applications with phosphonates do not control *Phytophthora* brown rot.
4. The phosphonates should also reduce problems with *Armillaria*.



## **PHYTOPHTHORA WAARSKUWING**

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Wydverspreide swaar reën en vloede het in die somerreënval produksieareas voorgekom. Hierdie nat toestande kan die kanse van *Phytophthora* wortelvrot en kraagvrot infeksies in die grond verhoog asook die voorkoms van bruinvrot besmetting op die vroeg-rypwordende kultivars. Hierdie abnormale toestande verg drastiese optrede. Hierdie Snykant dien dus as 'n waarskuwing aan alle produsente in die geaffekteerde gebiede.

### Phytophthora wortel- en kraagvrot beheermaatreëls.

1. Dreineer die boorde so spoedig moontlik, bv. maak afvoer-vore wat water weglei.
2. Boorde behoort met 'n fosfonaat blaarbespuiting teen die geregistreerde dosis gespuit te word.
3. Blaarbespuitings moet begin sodra dit moontlik is om in die boorde met spuitmasjienerie in te beweeg. 'n Voorstel is om in boorde wat eerste uitgedroog het, te begin en daarna die natter boorde (bv. boorde langs die riviere wat onder water was) te behandel.

4. Die fosfonaattoediening behoort na 8 weke met 'n tweede toediening opgevolg te word.

### Phytophthora bruinvrot beheermaatreëls:

1. Geregistreerde *Phytophthora* beheer middels: **Kontakswamdoders** (koper teen 200 g / 100 l of mancozeb teen 200 g / 100 l), kan vir die beskerming van vrugte teen **Phytophthora bruinvrot** na reënval gespuit word. **Kontakswamdoders** moet na opvolg reënval weer gespuit word.
2. Met die uitsondering van Brilliant is nie een van die fosfonate tans meer geregistreer vir die gebruik teen bruinvrot nie MAAR die geregistreerde blaarbespuitings vir die beheer van kraag- en wortelvrot is ook effektief teen bruinvrot. Die fosfonate is sistemies en sal enige herinfestasië van vrugte deur *Phytophthora* beskerm. *Phytophthora* proewe wat deur CRI gedoen is toon dat die blaarbespuitingsbehandeling vir die beheer van wortelvrot, uiters effektief vir die beheer van bruinvrot is.
3. Navorsing het bewys dat die sistemiese fosfonate uiters effektief gebruik kan word om *Phytophthora* infeksies te beheer. Grond en stamtoedienings van die fosfonate sal nie bruinvrot beheer nie.
4. Die fosfonate behoort ook tot 'n mate *Armillaria* probleme te verminder