

**Crop(s)**                      **Banana**

**Disease(s)**                **Yellow Sigatoka**

Resistance management strategy for:

|                    |                                            |
|--------------------|--------------------------------------------|
| <b>Group 3</b>     | Demethylation Inhibitors (DMI);            |
| <b>Group 7</b>     | Succinate dehydrogenase inhibitors (SDHI); |
| <b>Group 7 + 3</b> | SDHI + DMI;                                |
| <b>Group 9</b>     | Anilinopyrimidine (AP);                    |
| <b>Group 11</b>    | Quinone outside Inhibitor (QoI); and       |
| <b>Group 21</b>    | Quinone inside Inhibitor (Qil).            |

## Guidelines

### Far North Queensland

1. De-leafing must be conducted in accordance with industry guidelines.
2. Apply a regular schedule of protectant sprays.
3. When disease potential is high, apply a maximum of two consecutive **Group 3** sprays before changing to a fungicide of a different activity group.
4. **Do not** apply more than six **Group 3** sprays in any 12-month period. **Do not** apply any **Group 3** sprays in the months of June to September.
5. **Do not** apply more than two **Group 11** sprays in any 12-month period. **Do not** apply **Group 11** sprays in the months of May to September.
6. **Do not** apply more than four **Group 7** sprays in any 12-month period. **Do not** apply **Group 7** sprays in the months of June to September.
7. **Do not** apply more than three **Group 21** sprays in any 12-month period. Exposure to **Group 21** fungicides should not exceed 33 per cent of the total protection for the crop. After one **Group 21** application, change to a fungicide of a different activity group. The next fungicide should preferably have curative activity and a different mode of action.
8. **Group 7** or **11** fungicides should be applied in mixture with another fungicide from a different activity Group registered for the control of Yellow Sigatoka at the full registered rate.

9. **Do not** apply consecutive sprays of **Group 7, 11** or **21** fungicides.
10. Apply a minimum of two sprays from a different activity group between sprays of a **Group 7** or **11** fungicide.
11. **Do not** apply more than six **Group 9** sprays in any 12-month period.
12. **Do not** apply more than two consecutive sprays of a **Group 9** fungicide before changing to a fungicide of a different activity group. When using consecutive applications of **Group 9** fungicides, follow with at least as many different activity group fungicides before resuming with a **Group 9** fungicide.

| Group | Max. number of applications per year | Max. number of consecutive sprays | Restricted (no spray) periods |
|-------|--------------------------------------|-----------------------------------|-------------------------------|
| 3     | 6 (& no more than 2 of 3 sprays)     | 2                                 | June to September inclusive   |
| 7     | 4 (& no more than 1 of 3 sprays)     | Not allowed                       | June to September inclusive   |
| 9     | 6 (& no more than 2 of 4 sprays)     | 2                                 | No restriction                |
| 11    | 2 (& no more than 1 of 3 sprays)     | Not allowed                       | May to September inclusive    |
| 21    | 3 (& no more than 1 of 3 sprays)     | Not allowed                       | No restriction                |

#### Everywhere except far North Queensland

1. When using **Group 3** fungicides, apply a maximum of two consecutive **Group 3** sprays before changing to a fungicide of a different activity group.
2. **Do not** apply more than six **Group 3** sprays in any 12-month period.
3. **Do not** apply more than four **Group 7** or **11** sprays in any 12-month period.
4. **Do not** apply consecutive sprays of **Group 7, 11** or **21** fungicides.
5. Apply a minimum of two sprays from a different activity group between sprays of a **Group 7** or **11** fungicide.
6. **Do not** apply more than six **Group 9** sprays in any 12-month period.

7. **Do not** apply more than two consecutive sprays of **Group 9** fungicides before changing to a fungicide of a different activity group. When using consecutive applications of **Group 9** fungicides, follow with at least as many different activity group fungicides before resuming with a **Group 9** fungicide.
8. **Do not** apply more than three **Group 21** sprays in any 12-month period. Exposure to **Group 21** fungicides should not exceed 33 per cent of the total protection for the crop. After one **Group 21** application, change to a fungicide of a different activity group. The next fungicide should preferably have curative activity.

| Group | Max. number of applications per year | Max. number of consecutive sprays | Restricted (no spray) periods |
|-------|--------------------------------------|-----------------------------------|-------------------------------|
| 3     | 6 (& no more than 2 of 3 sprays)     | 2                                 | No restriction                |
| 7     | 4 (& no more than 1 of 3 sprays)     | Not allowed                       | No restriction                |
| 9     | 6 (& no more than 2 of 4 sprays)     | 2                                 | No restriction                |
| 11    | 4 (& no more than 1 of 3 sprays)     | Not allowed                       | No restriction                |
| 21    | 3 (& no more than 1 of 3 sprays)     | Not allowed                       | No restriction                |