

## BBRO Advisory Bulletin No 10 - W/C 20th June 2016

### **BREAKING NEWS – BREAKING NEWS – BREAKING NEWS**

**BBRO has regained emergency authorisation for the use of Biscaya for leaf miner (mangold fly) control in 2016. This was confirmed by the authorities as effective on the 21st June and approval is in place for 120 days (until October 18th 2016) Application should be made via a ground boom sprayer in a minimum of 200 l/ha. No more than two sprays of Biscaya (maximum individual dose: 0.4l/ha of thiacloprid) can be made to English sugar beet crops.**

Our current observations indicate that leaf miner populations are between first and second generations and overall, damage does not appear to be increasing. The recent wet conditions may have helped to reduce the activity of adults but new eggs will continue to be laid over the coming weeks and crops should be assessed for the need for any treatment. BBRO trials have shown that the most effective stage for treatment is at egg hatch/larval emergence. For many crops, this may be over the next few weeks but it is really important to assess crops to ensure your use of Biscaya is at the optimum time.

Please remember, the threshold for treatment is when the number of eggs and larvae exceeds the square of the number of true leaves. For example, a plant with six true leaves would need a population of 36 or more eggs and larvae to warrant treatment and a crop with 10 true leaves would need a population of 100 or more eggs and larvae.

Remember to check the underside of leaves for eggs and larvae.



## Aphid numbers increase

BBRO has recorded a significant increase in *M.persicae* numbers in our traps but there is a wide variation between sites. The total to date in 2016 is 3758 compared to 1011 at the same time last season. The relatively warm autumn and winter temperatures and the presence of alternative host crops such as oilseed rape is considered to be contributing to these large populations.

As crops lose the protection of seed treatments these high populations increase the risk of virus infection.

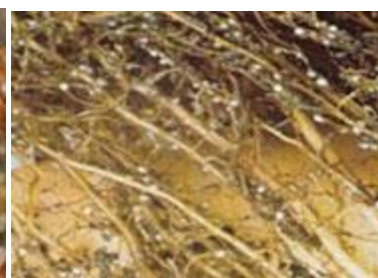


Although there is currently no approved foliar products available for this pest, please continue to monitor late/backwards crops. However, once plants reach 12 leaf stage mature plant resistance will have an impact and the risk of virus spread declines

## Nematodes

Whilst the wet weather has provided plenty of water for crop growth, both cyst and free living nematodes also more mobile and active in wet soils.

It may be worthwhile to start looking at roots for the first signs of the immature white female beet cyst nematodes (see below). There are reports of this in a few crops already. It is important to assess levels of nematode damage. Specifically target crops where growth may be stunted in patches and possibly showing signs of nutrient stress and yellowing of the older leaves.



Nematode feed on the root system, often killing out the growing points of lateral roots and plants may characteristically have less fibrous roots where the nematode have been most active. Also, the tap root may be distorted or showing the early signs of fanging, especially in the case of free living nematodes. Foliar feeding of nematode-damaged crops may be an option worth discussing with your agronomist as damaged root systems are unlikely to be able to take up sufficient nutrients for normal plant development.

### **Downy Mildew**

Further cases of downy mildew have been observed in crops so continued vigilance is required, although currently, downy mildew infection is less of an issue than compared to 2015.

### **Silver Y moth**

We continue to see a few Silver Y moth in crops and pheromone traps but numbers are generally low. Recent wet weather will help to prevent large populations developing.

***Caution:** this information is based on results of experiments and experience but cannot constitute a recommendation.*

#### **BBRO Office**

British Beet Research Organisation  
Innovation Centre  
Norwich Research Park  
Colney Lane  
Norwich  
NR4 7GJ  
01603 672169  
[www.bbro.co.uk](http://www.bbro.co.uk)  
[www.uksugarbeet.co.uk](http://www.uksugarbeet.co.uk)

#### **General Enquiries**

[info@bbro.co.uk](mailto:info@bbro.co.uk)

#### **Contacts**

Colin Walters  
[colin.walters@bbro.co.uk](mailto:colin.walters@bbro.co.uk)  
07850 369850

Dr Mark Stevens  
[mark.stevens@bbro.co.uk](mailto:mark.stevens@bbro.co.uk)  
07712 822194

Dr Simon Bowen  
[simon.bowen@bbro.co.uk](mailto:simon.bowen@bbro.co.uk)  
07718 422717

#### **BASIS Points**

Two BASIS points in total (not per bulletin) have been allocated for the period between 01/06/16 and 31/05/17 reference CP/51092/1516/g. To claim these points please email [michele@basis-reg.co.uk](mailto:michele@basis-reg.co.uk)



[www.bbro.co.uk](http://www.bbro.co.uk)