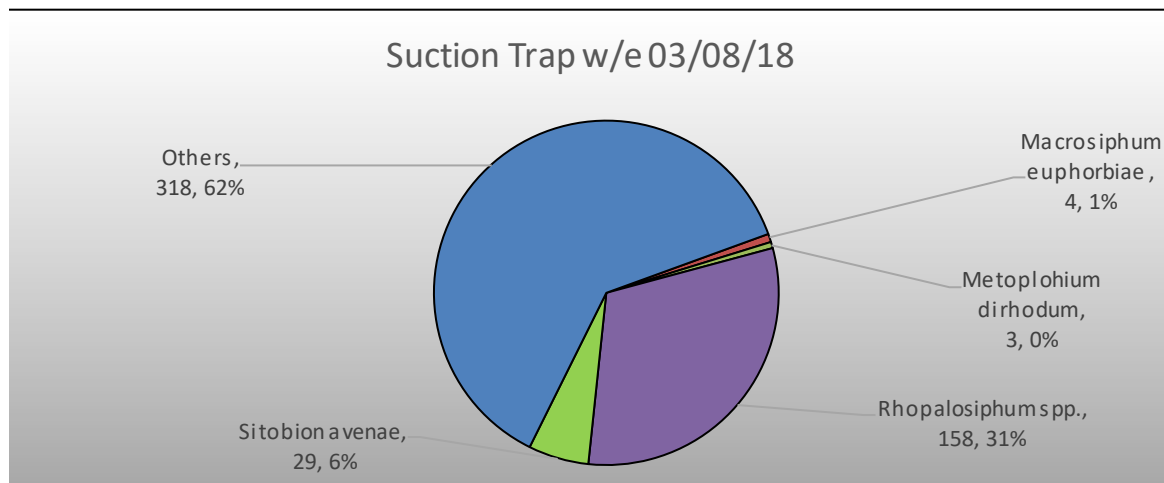




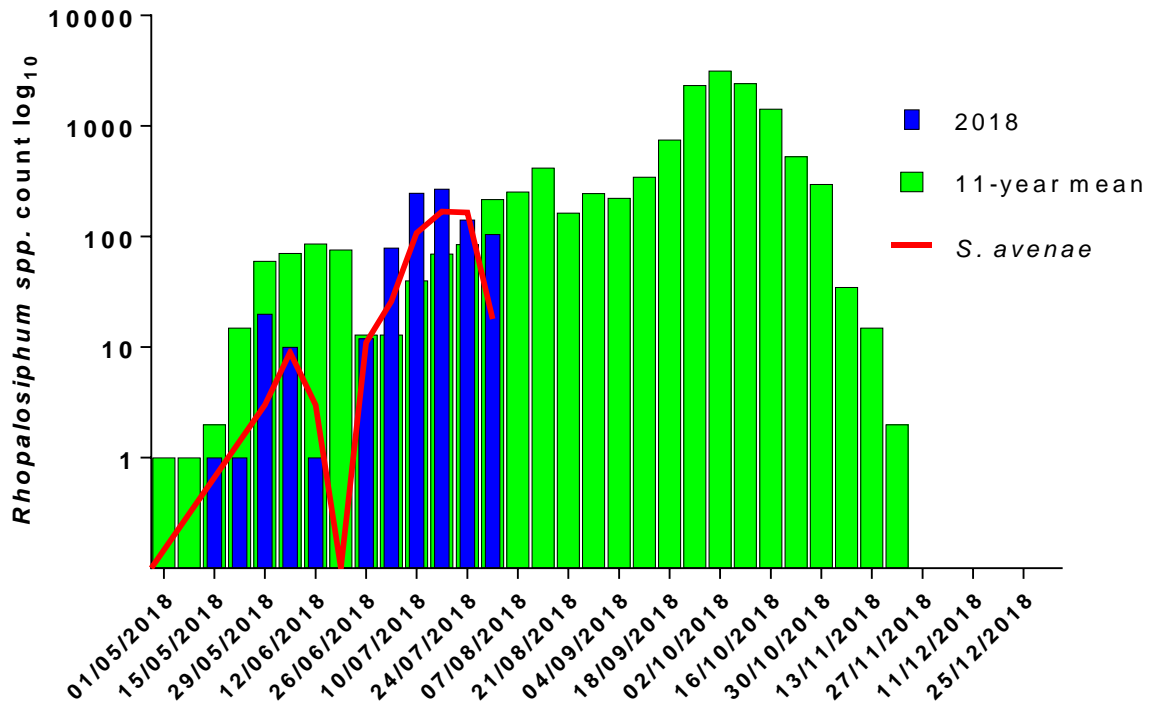
Newforge Suction Trap 2018

W/E 03/08/18		Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Total
<i>Brachycaudus helichrysi</i>	(Leaf-curling plum aphid)								0
<i>Macrosiphum euphorbiae</i>	(Potato aphid)			3				1	4
<i>Metoplohium dirhodum</i>	(Rose-grain aphid)		2					1	3
<i>Rhopalosiphum spp.</i>		1	29	45	19	3	12	49	158
<i>Sitobion avenae</i>	(Grain aphid)		2	4	7	1	2	13	29
Others		4	21	56	80	8	18	131	318
Total		5	54	108	106	12	32	195	512
Notes									



Weekly Cereal Aphid Monitor 2018

Aphid counts week ending 3rd August 2018



Headlines

- In general, cereal aphid activity has decreased.
- The number of *Rhopalosiphum* spp. recorded in suction trap catch is significantly lower than the 11-year mean.
- The numbers of *Sitobion avenae* and *Metopolophium dirhodum* have decreased significantly.

How is BYDV transmitted?

The aphids transmit BYDV into winter cereals by two ways:

1. Cereal volunteers, or grass weeds within a field can act as hosts for aphids after stubble destruction. This type of infection typically causes large discrete patches of severely infected plants.
2. Winged aphids flying from grass or cereal volunteers elsewhere can also introduce the virus into the newly emerged crops during the autumn. In some regions, this is the most common route for BYDV infection.

Risk forecasting

The Aphid Migration graph provides an indication of aphid numbers in Northern Ireland and consequently the relative risk of BYDV. This data is collected and updated weekly by AFBI, Newforge Lane during the high-risk period. The current situation is displayed against a reference “11- year average” to indicate whether the aphid numbers are significantly higher than usual. This is used to assess the degree of risk of BYDV infection in conjunction with the emergence dates of winter cereal crops. The advice based on this assessment could be:

High risk

A large early migration of aphid vectors in conjunction with the coincidence of early emergence of crops.

Action: Application of insecticidal spray to crops which have reached the 2-leaf stage of growth. This should be followed up after 2 weeks with a crop inspection for further aphid arrivals.

Moderate risk

Migration at or slightly higher than the 11- year average and crops emerging later.

Action: Application of insecticidal spray to crops (2-leaf stage) emerged before the end of the aphid migration (usually early November).

Low risk

Migration below the 11-year average.

Action: Monitor crops regularly for presence of aphid vectors. Application of insecticidal spray only to those crops where aphids are found.

Aerial introduction of BYDV by migrating aphids results in point infections scattered throughout the crop. The real damage is caused when these initial aphids give rise to colonies which disperse and carry the infection to surrounding plants. Insecticidal sprays are used to limit this spread of BYDV so that the overall level of infection is insignificant when the crop matures.

BYDV control

Cereal aphid monitoring for 2018 has commenced. The Aphid Migration graph provides an indication of aphid numbers in Northern Ireland and consequently the risk of BYDV, although this may vary regionally. During the high-risk autumn period this data is collected and updated weekly by AFBI, Newforge Lane. To view the updated reports and for more information click the link to weekly reports. (<https://www.afbini.gov.uk/publications/cereal-aphid-weekly-results-2018>)

In situations where there is a weedy stubble or a large number of volunteers cereal plants, this "green bridge" should be destroyed by desiccation with herbicide, 7-10 days before ploughing and in an interval of a least 14 days allowed before sowing.

For drilled crops, an aphicide approved for BYDV vector control can be applied at the 2-3 leaf growth stage. If low seed rates are used or the crop is early sown, an additional aphicide application may be required.

Growers should check the product label for full details.