

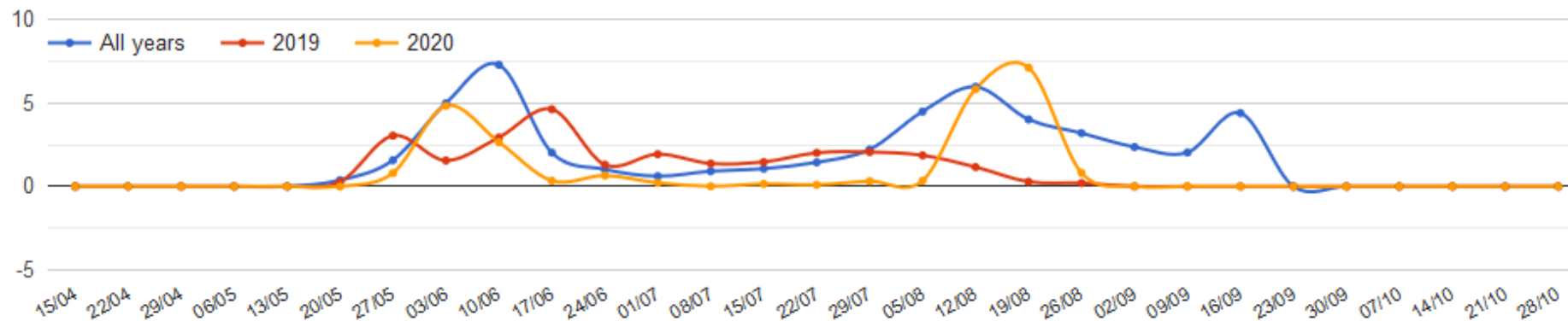
AHDB Yellow Water Traps: virus pressure by region 2020

North of Scotland

- 1st peak: virus pressure (VP) peaked one week earlier (late May - early June) than the average for all years.
- 2nd peak: this was one week later than the average for all years (mid-August).
- VP was 40% < than the average for all years at the 1st peak but 20% higher at the 2nd peak.
- During the majority of the season VP was below the average for all years and tailed off early.

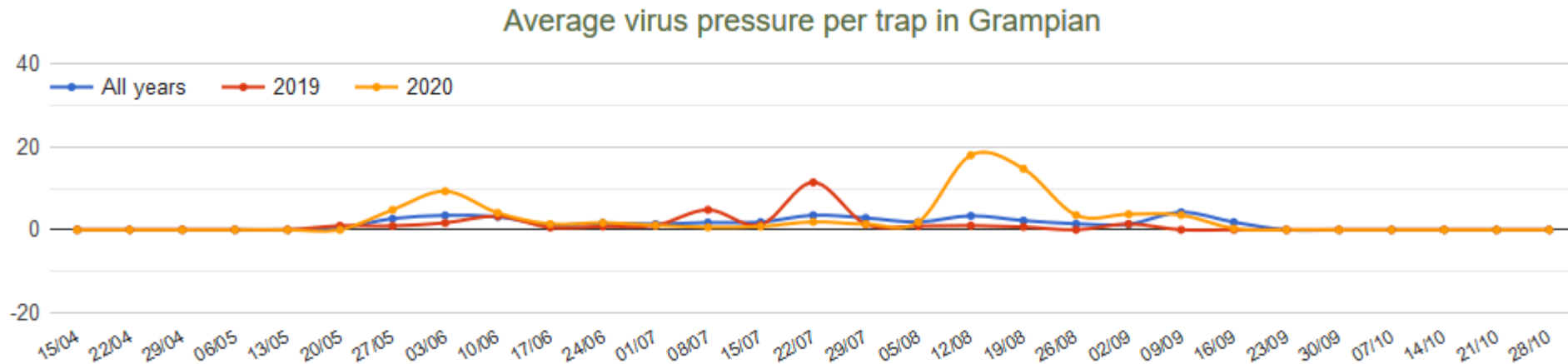
- The first peak was almost entirely due to *Cavariella aegopodii* (Willow-Carrot Aphid) with *Hyperomyzus lactucae* (Currant-Sowthistle Aphid) also contributing.
- A number of species contributed to the second peak in mid-August:
 - *Acyrtosiphon pisum* (Pea Aphid)
 - *Aphis fabae* (Black-Bean Aphid)
 - *Aulacorthum solani* (Glasshouse and Potato Aphid)
 - *Hyperomyzus lactucae* (Currant-Sowthistle Aphid)
 - *Macrosiphum euphorbiae* (Potato Aphid) caught per trap
 - *Myzus persicae* (Peach-Potato Aphid)
 - *Rhopalosiphum padi* (Bird Cherry-Oat Aphid)

Average virus pressure per trap in North Scotland



- 1st peak: virus pressure (VP) peaked one week earlier (late May - early June) than the average for all years.
- 2nd peak: this was at the same time as the average for all years (early-August), however it was much higher.
- VP was 2.7 x higher than the average for all years at the 1st peak and 5.3 x higher at the 2nd peak.
- During the majority of the season VP was equal to or just below the average for all years.

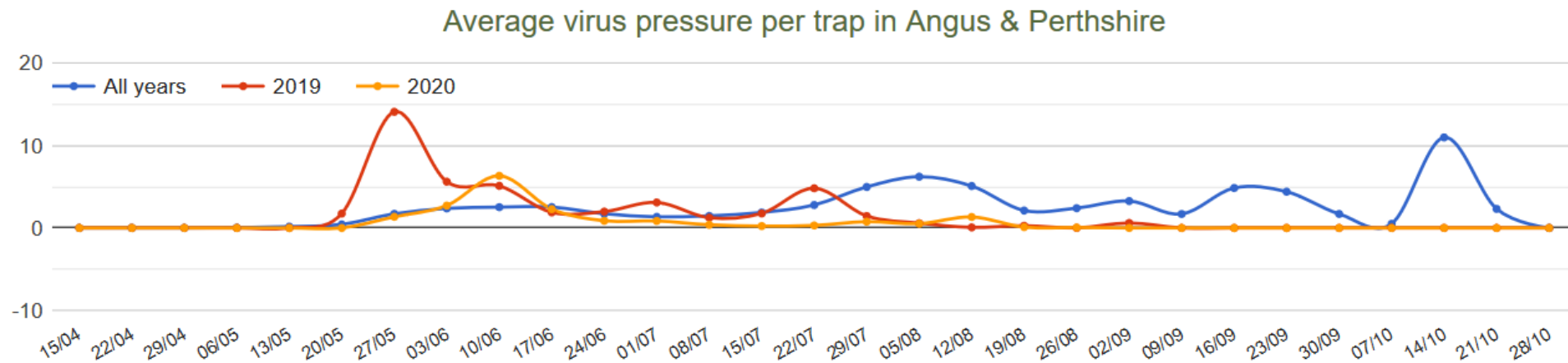
- First peak:
 - *Acyrtosiphon pisum* (Pea Aphid)
 - *Aulacorthum solani* (Glasshouse and Potato Aphid)
 - *Cavariella aegopodii* (Willow-Carrot Aphid)
 - *Hyperomyzus lactucae* (Currant-Sowthistle Aphid)
- Second peak in mid-August:
 - *Acyrtosiphon pisum* (Pea Aphid)
 - *Aphis fabae* (Black-Bean Aphid)
 - *Aulacorthum solani* (Glasshouse and Potato Aphid)
 - *Macrosiphum euphorbiae* (Potato Aphid) caught per trap
 - *Myzus persicae* (Peach-Potato Aphid)
 - *Rhopalosiphum padi* (Bird Cherry-Oat Aphid)



Angus & Perthshire

- Virus pressure (VP) less than the average for all years, except for a small peak in early June.
- VP was 2.5 x higher than the average for all years at the peak.

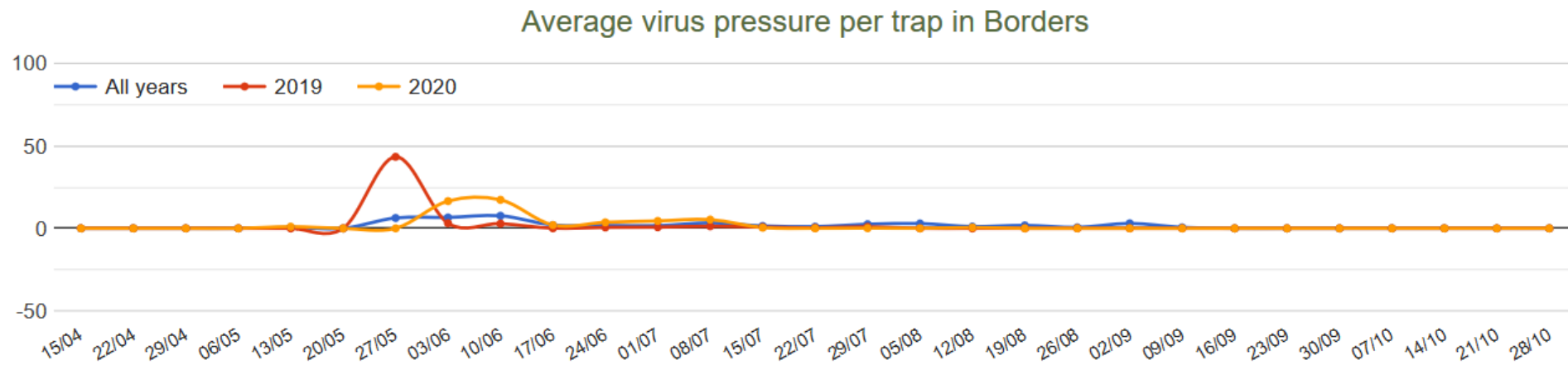
- Species responsible for peak above average:
 - *Aphis fabae* (Black-Bean Aphid)
 - *Cavariella aegopodii* (Willow-Carrot Aphid) - 2.8x > average at the peak.



Borders

- Virus pressure (VP) greater than the average for all years, particularly during a peak in early June.
- VP was 2.5 x higher than the average for all years at the peak.

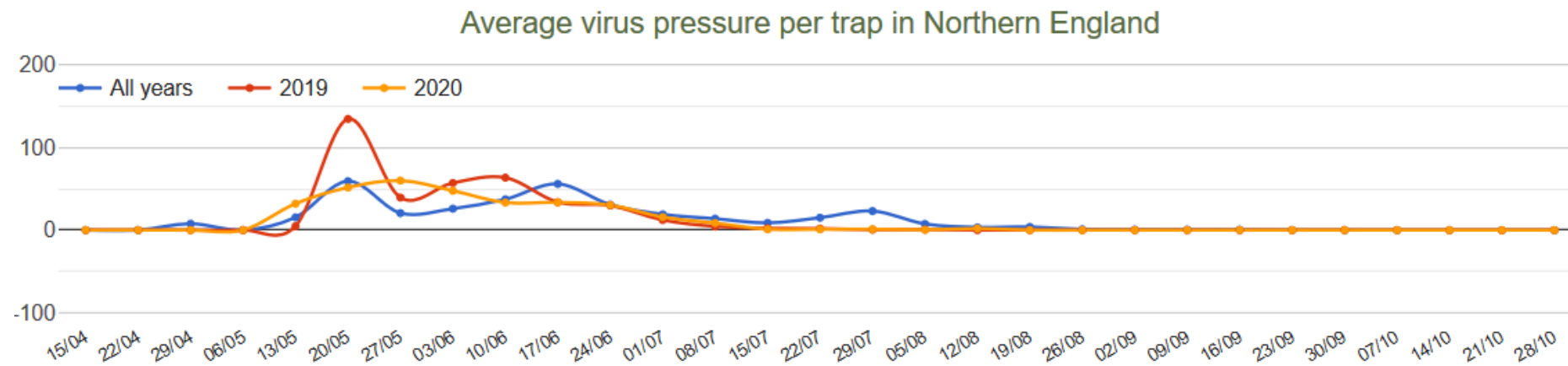
- Species responsible for peak above average:
 - *Cavariella aegopodii* (Willow-Carrot Aphid) -1.9x > average at the peak.
 - *Myzus persicae* (Peach-Potato Aphid)) -2.1x > average at the peak.
- Species responsible for generally high VP:
 - *Acyrtosiphon pisum* (Pea Aphid)
 - *Cavariella aegopodii* (Willow-Carrot Aphid)
 - *Myzus persicae* (Peach-Potato Aphid)



Northern England

- Virus pressure (VP) > the average for all years from early May - early June. VP then tailed off early from early-July.
- VP was 2.9x > average at its peak in late May.

- Species responsible for the peaks above average:
 - *Brachycaudus helichrysi* (Leaf-Curling Plum Aphid)
 - *Hyperomyzus lactucae* (Currant-Sowthistle Aphid) - early June peak 1.4x > average
 - *Myzus ascalonicus* (Shallot Aphid)
 - *Myzus persicae* (Peach-Potato Aphid)
 - *Sitobion avenae* (Grain Aphid)

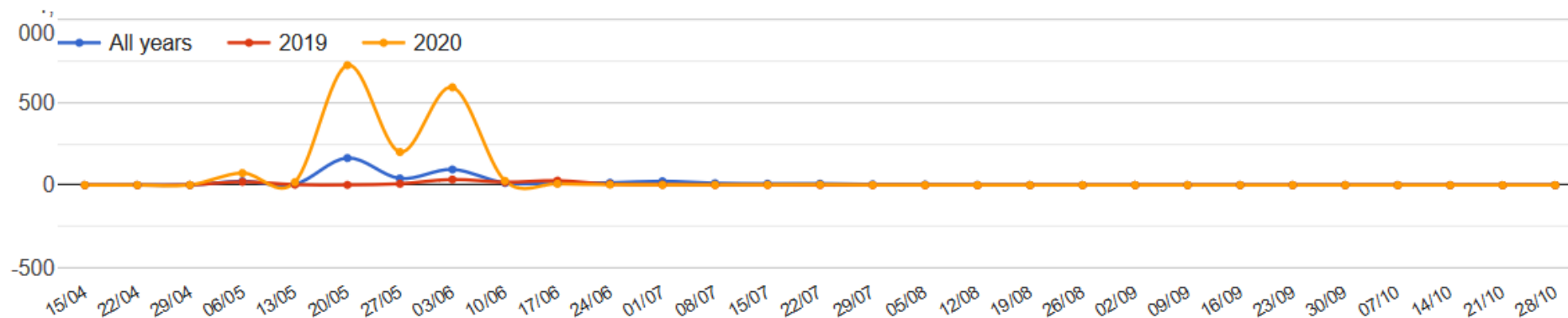


East Anglia

- There were 2 very high peaks in VP in mid May and early June.
- Mid May – VP 4.4x > average
- Early June – VP 6.4x > average

- *Myzus persicae* (Peach-Potato Aphid) was responsible for a large proportion of the VP:
 - Mid-May VP 2.4x > average
 - Early June: VP 4.1x > average
- Other species contributing in mid May:
 - *Aulacorthum solani* (Glasshouse and Potato Aphid)
 - *Cavariella aegopodii* (Willow-Carrot Aphid)
 - *Hyperomyzus lactucae* (Currant-Sowthistle Aphid)
- Other species contributing in early June:
 - *Acyrtosiphon pisum* (Pea Aphid)
 - *Brachycaudus helichrysi* (Leaf-Curling Plum Aphid)
 - *Brevicoryne brassicae* (Cabbage Aphid)
 - *Cavariella aegopodii* (Willow-Carrot Aphid)
 - *Macrosiphum euphorbiae* (Potato Aphid)

Average virus pressure per trap in East Anglia

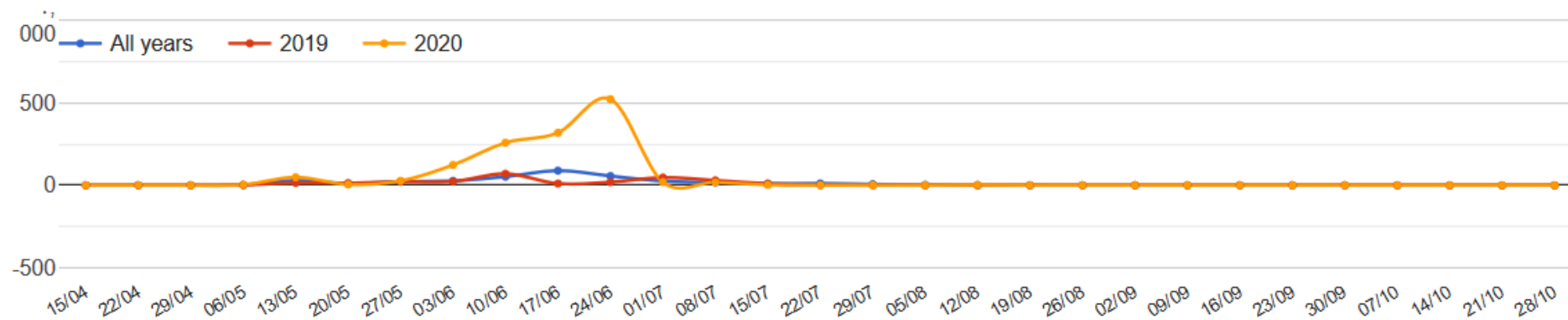


Midlands

- Virus pressure (VP) was high from the end of May to the end of June.
- At its height, at the end of June, VP was 9.3x > the average for all years.

- Species responsible for the peak above average:
 - *Brachycaudus helichrysi* (Leaf-Curling Plum Aphid) - late June 6.2x > average
 - *Cavariella aegopodii* (Willow-Carrot Aphid) - late June 5.8x > average
 - *Hyperomyzus lactucae* (Currant-Sowthistle Aphid) - mid June 1.8x > average
 - ***Macrosiphum euphorbiae* (Potato aphid) - mid June 3.6x > average**
 - *Metopolophium dirhodum* (Rose-Grain Aphid) - mid June 1.9x > than average
 - ***Myzus persicae* (Peach-Potato Aphid) - very high from late May to the end of June 6x > than average numbers of *M. persicae* recorded at the end of June. This species was responsible for a large proportion of the the VP.**

Average virus pressure per trap in Midlands



South West

- Virus Pressure (VP) less than average, except a for the period late May to late June:
- In early May - VP was 2.4 x > average

- Species responsible:
 - *Acyrtosiphon pisum* (Pea Aphid)
 - *Aphis fabae* (Black-Bean Aphid) - early June VP 3.5x > average
 - *Hyperomyzus lactucae* (Currant-Sowthistle Aphid) - late May VP 1.7x > average
 - *Macrosiphum euphorbiae* (Potato Aphid) - early June VP 1.9x > average
 - *Myzus persicae* (Peach-Potato Aphid) - mid June VP 1.9x > average

