



United Oilseeds

Colin Peters

Why Oilseed Rape?

- Oilseed rape ticks many boxes as a break crop
 - Excellent Gross Margin (Niab 2025 figures shown below)

Heavy Soil		Variable Costs		£/ha	
Winter Oilseed Rape		Seed	45	Fertiliser	298
		Herbicides	118	Fungicides	51
		Insecticides	15	Growth Regulators	0
		Other	13	Total	540

Yield (t)	HA>	2.00	2.50	3.00	3.50	4.00	4.50	5.00
	AC>	0.81	1.01	1.21	1.42	1.62	1.82	2.02
Price (£/t)	£380	220	410	600	790	980	1170	1360
	£390	240	435	630	825	1020	1215	1410
	£400	260	460	660	860	1060	1260	1460
	£410	280	485	690	895	1100	1305	1510
	£420	300	510	720	930	1140	1350	1560
	£430	320	535	750	965	1180	1395	1610
	£440	340	560	780	1000	1220	1440	1660
	£450	360	585	810	1035	1260	1485	1710
	£460	380	610	840	1070	1300	1530	1760
	£470	400	635	870	1105	1340	1575	1810
£480	420	660	900	1140	1380	1620	1860	
Variable Costs £ / t		£270	£216	£180	£154	£135	£120	£108



- Excellent break for cereals diseases (Take-all etc.)
- Brassica tap roots are known to be very good at soil structure remediation
- Perfect labour profile fit (Other than drilling)
- Lower variable cost input than some crops
- Lots of potential for the crop in the future with its ability to produce a range of different oils through technical processes or longer term through breeding



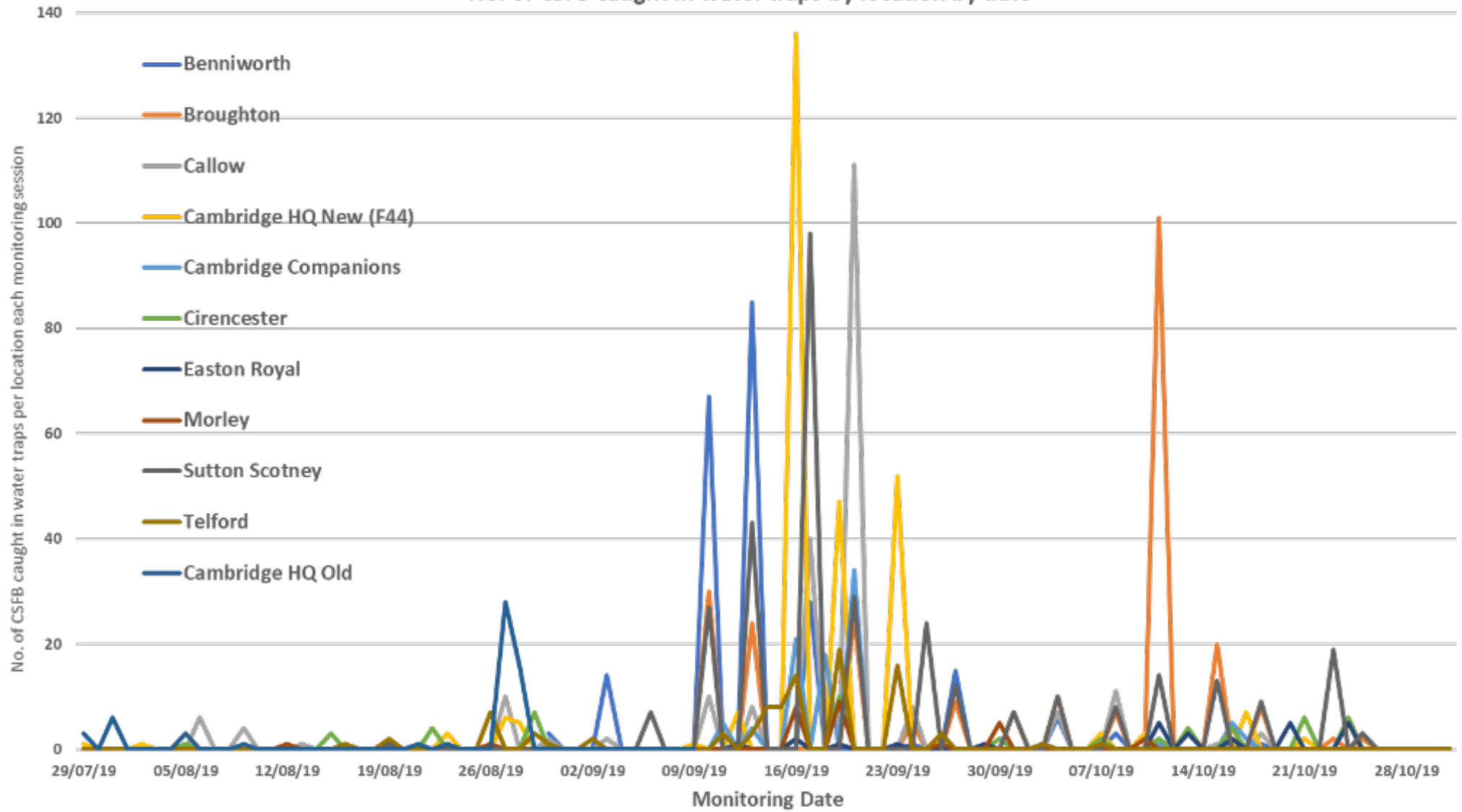
Csfb, what we accept life cycle wise

Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug		
												Eggs	
													L1
													L2
													L3
													Prepupa
													Pupae
													Adults

Data from Sáringer (1984)

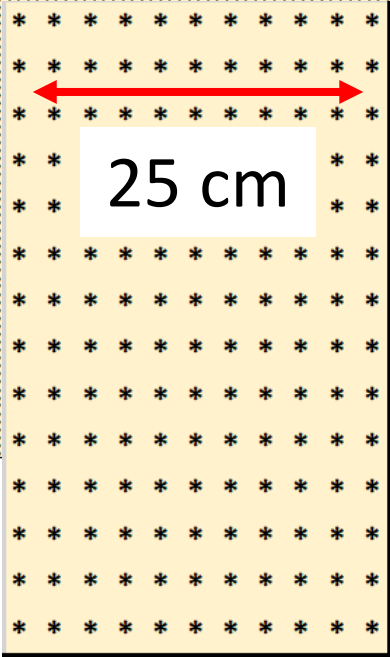


No. of CSFB caught in water traps by location by date



Adults in trailer 2.5m X 6.00m (18 tonne)

24,000 csfb adults

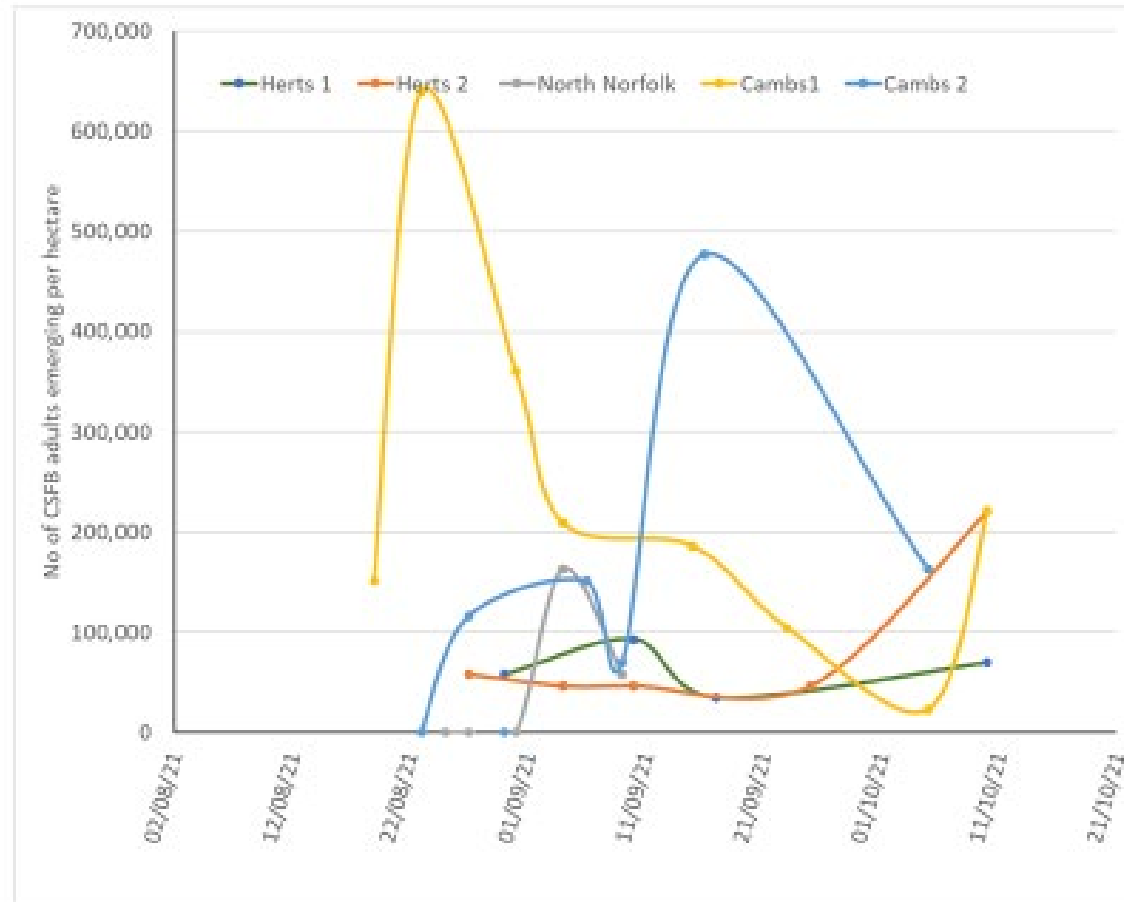


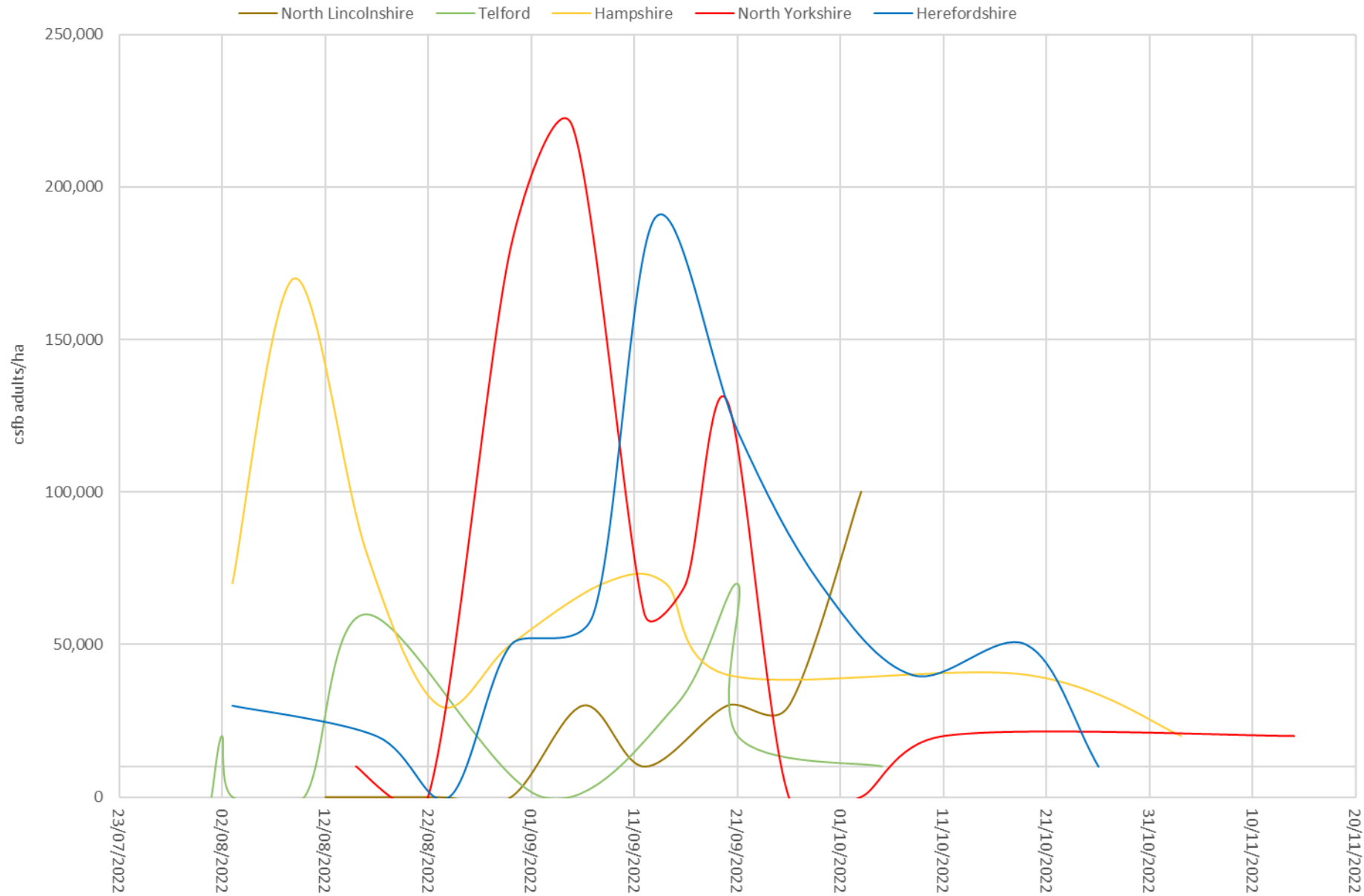


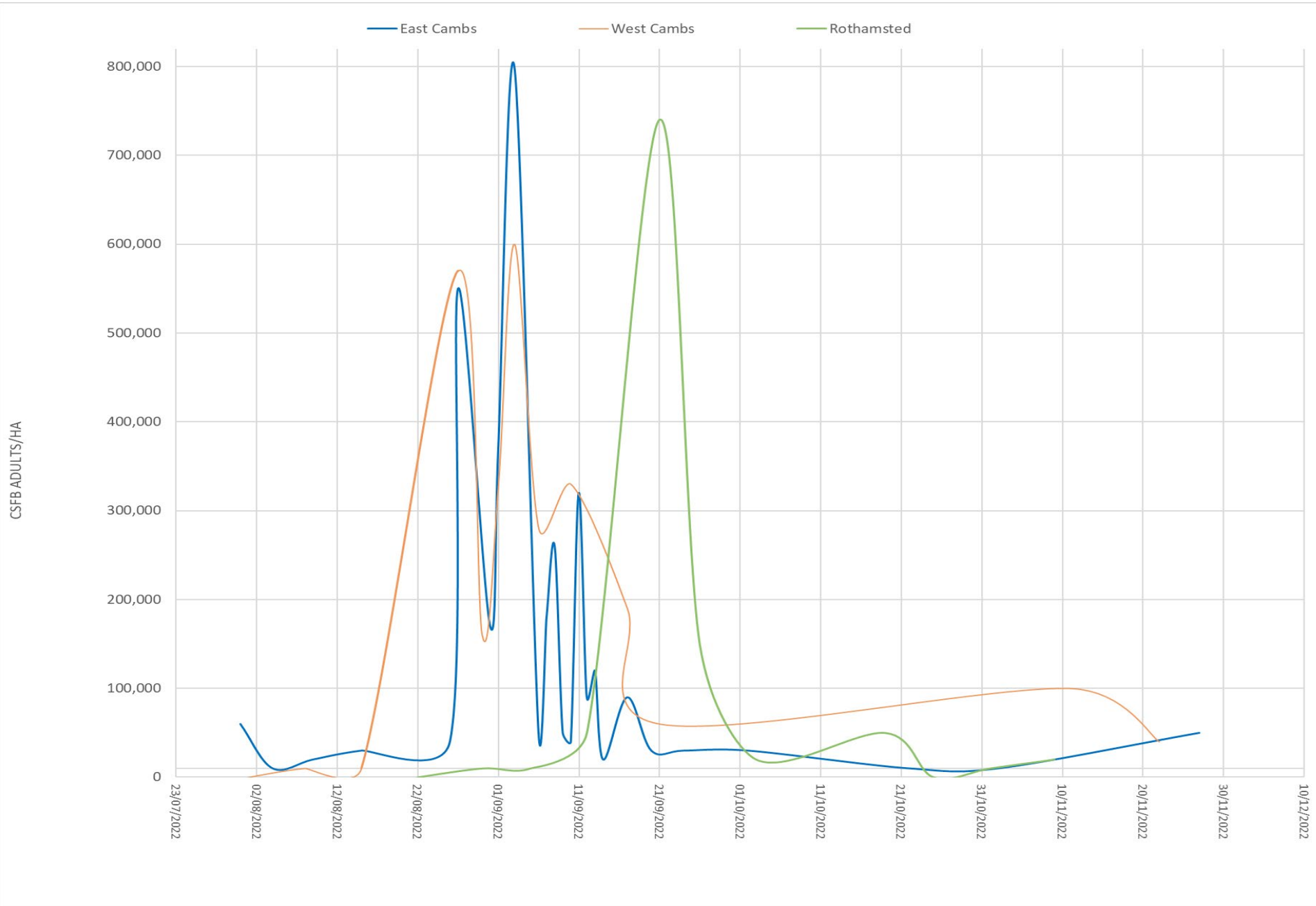
Emergence Traps

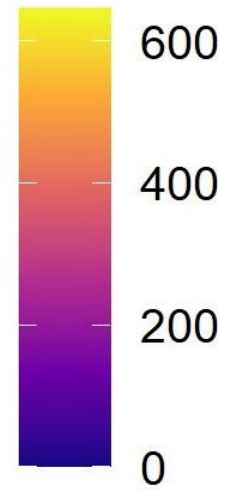
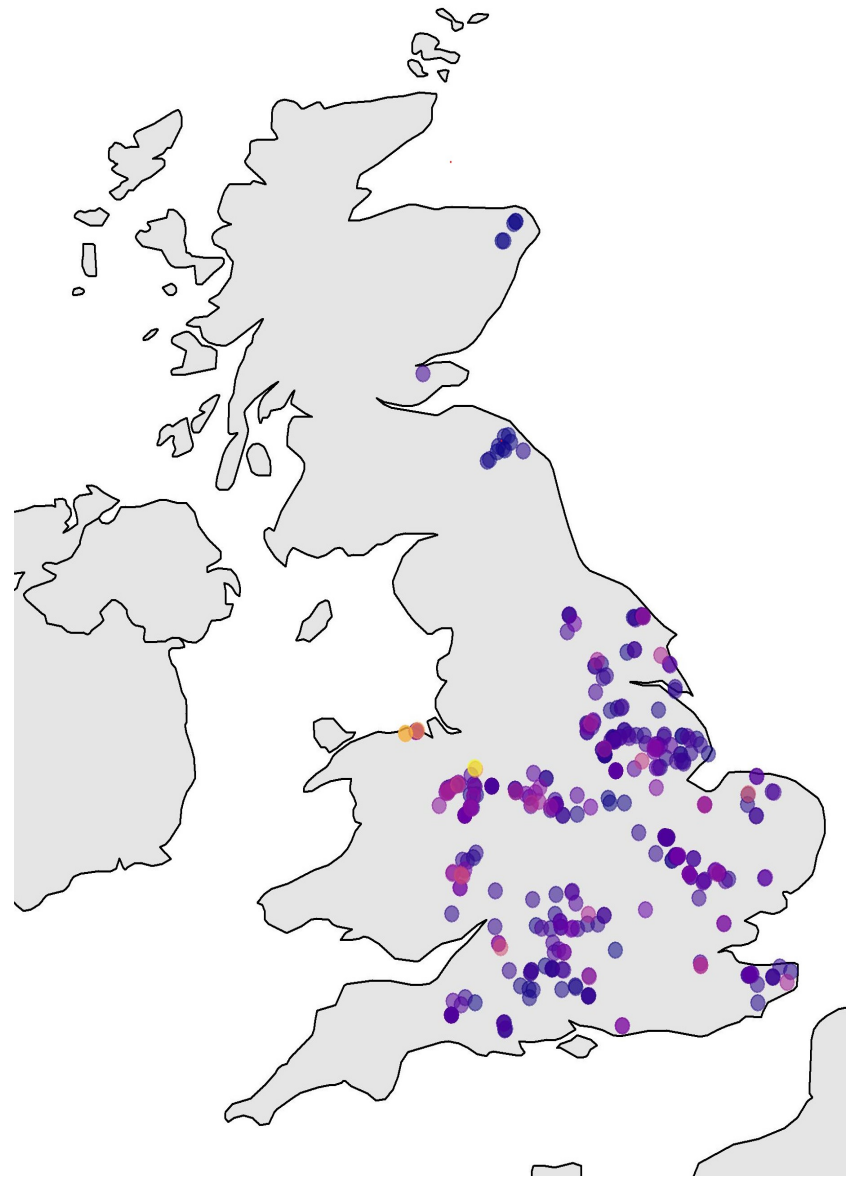


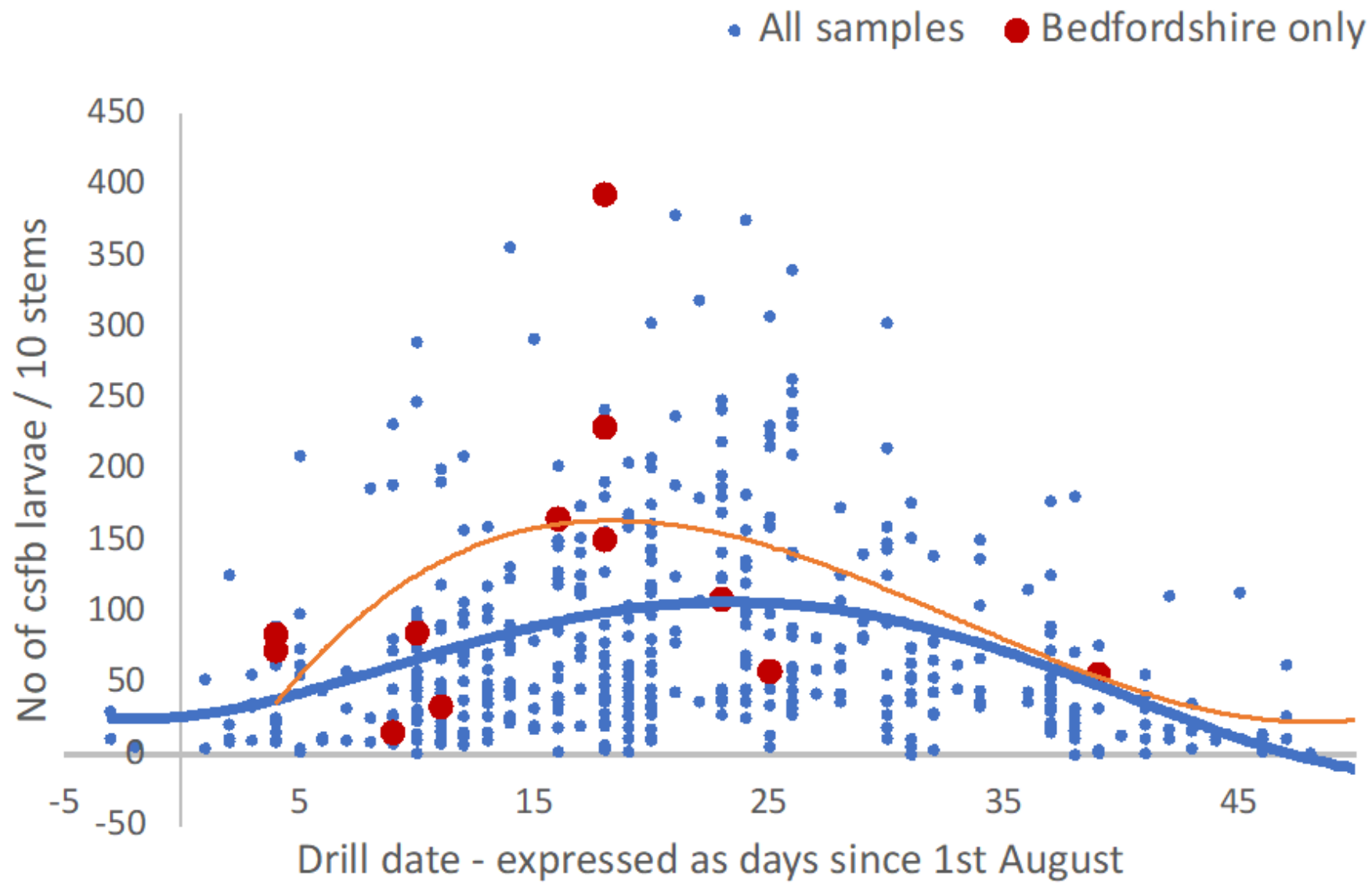
Emergence trap figures autumn 2021







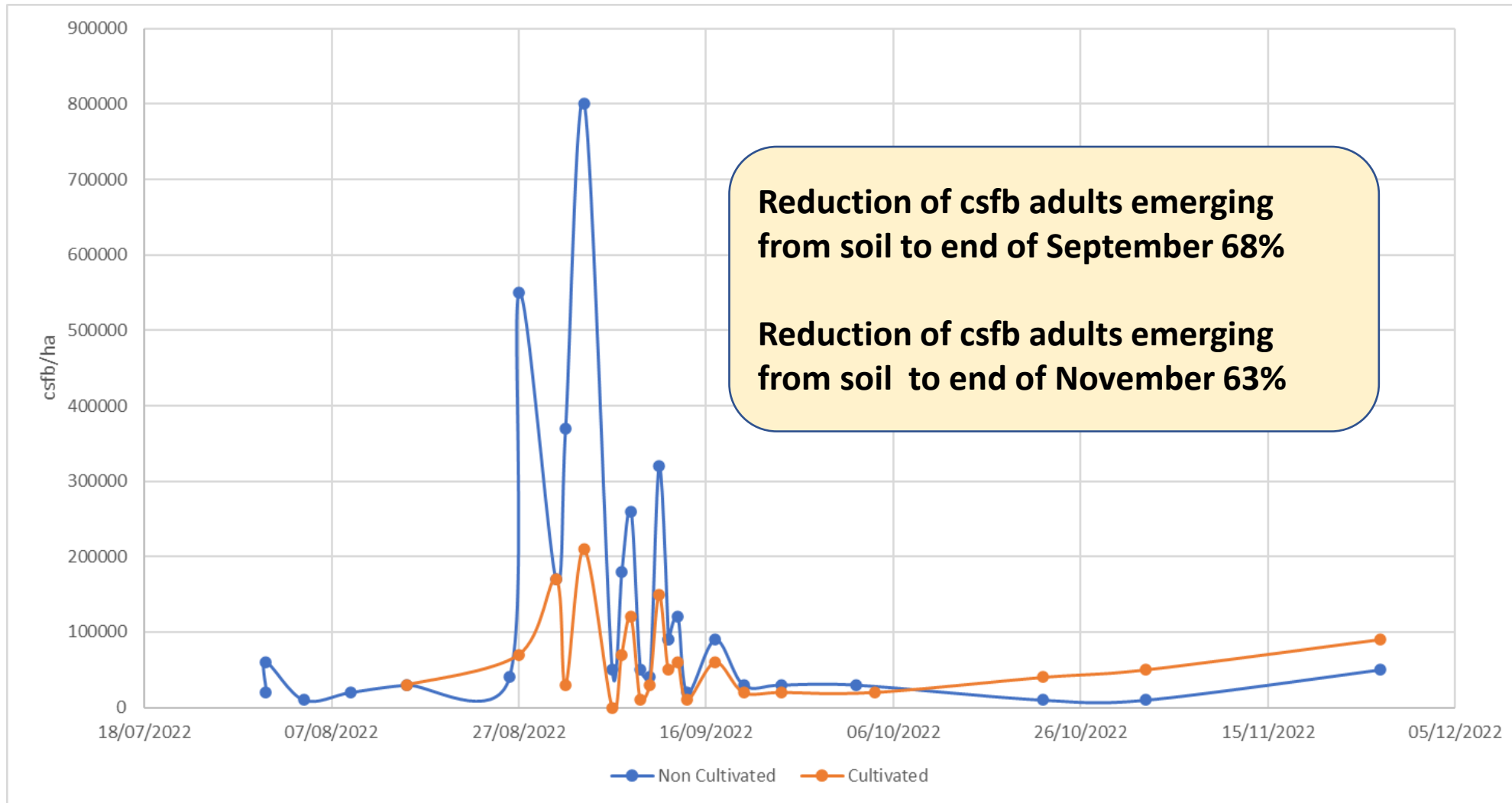




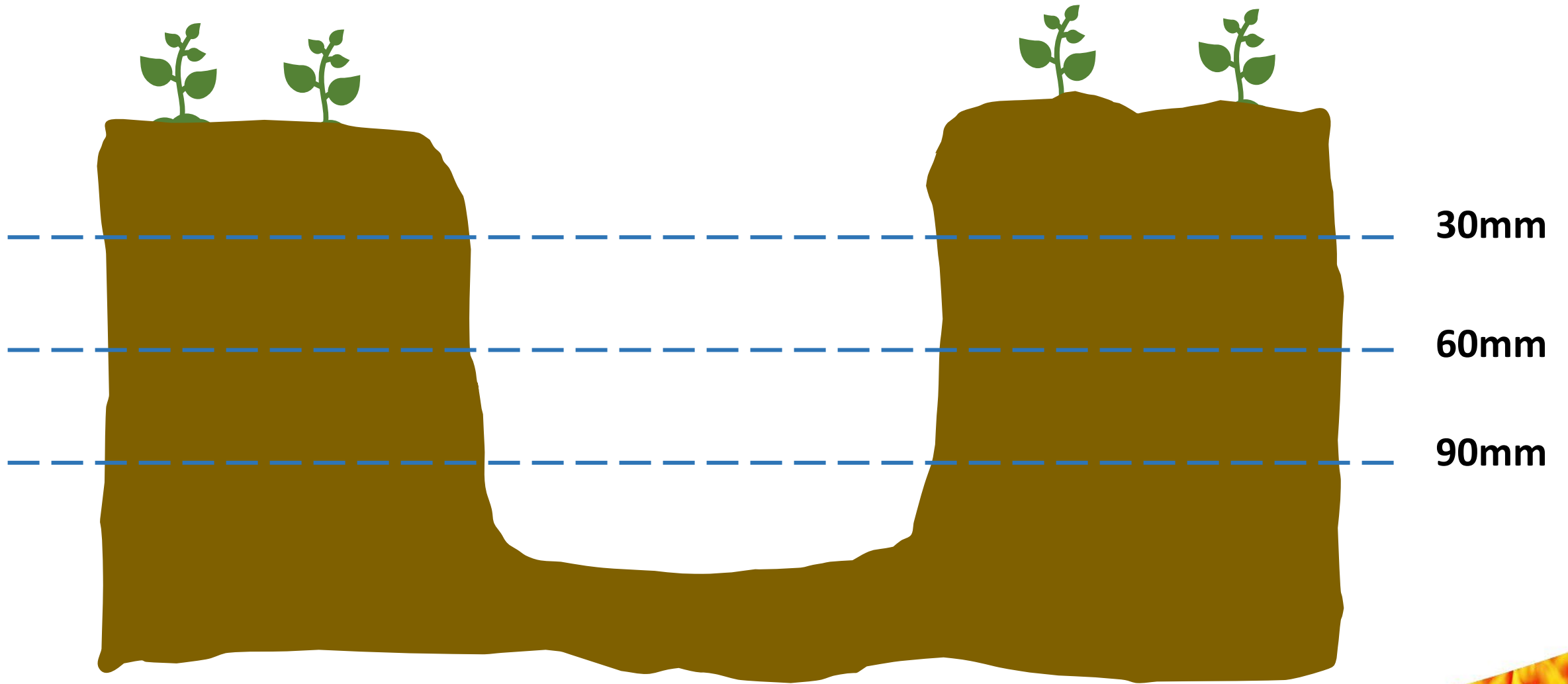
csfb adults/ha



Cambridgeshire (Shallow Cultivation 50mm depth with discs)



Soil samples



Pre harvest csfb adults





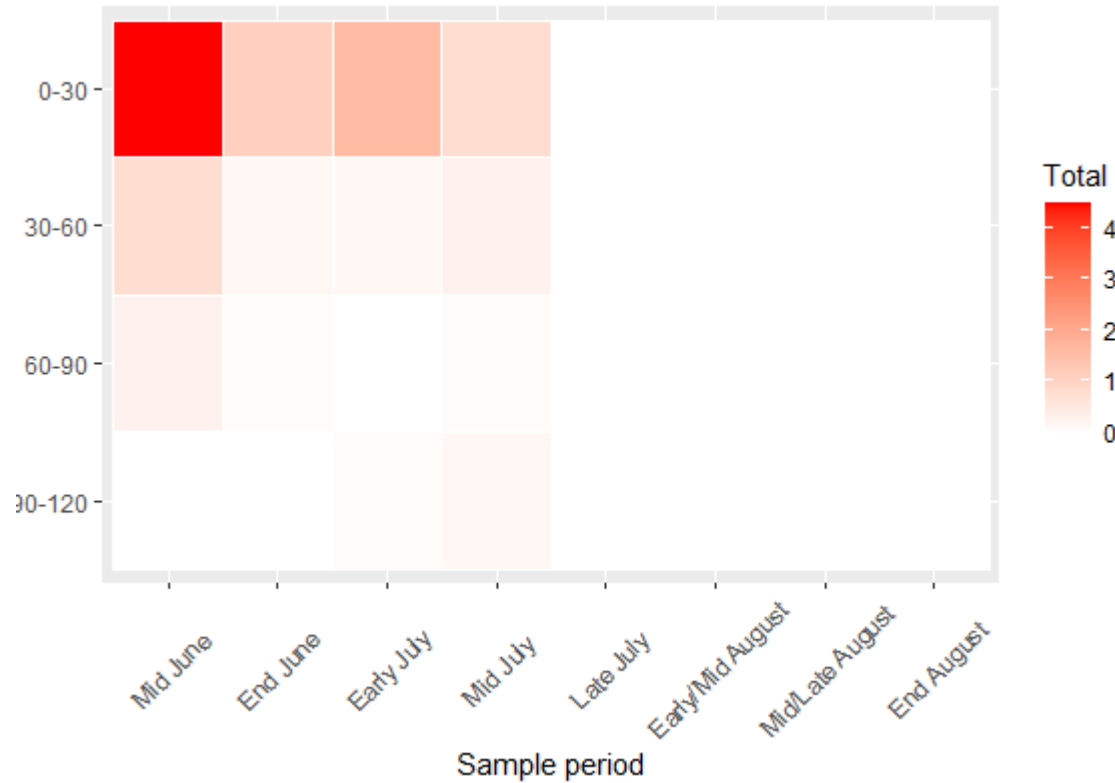
NIAB

world-class experience,
skills and resources

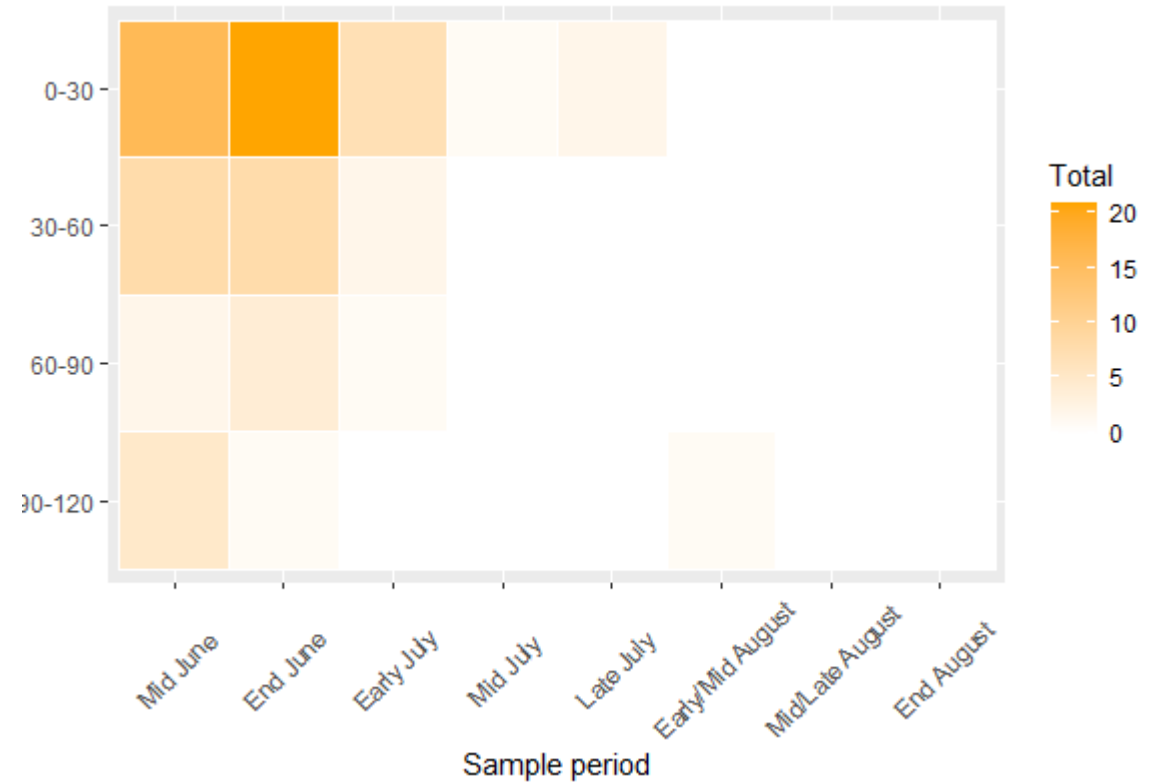
Most adults present in top 30mm of soil

Significant preference between layers: $p < 0.0001$

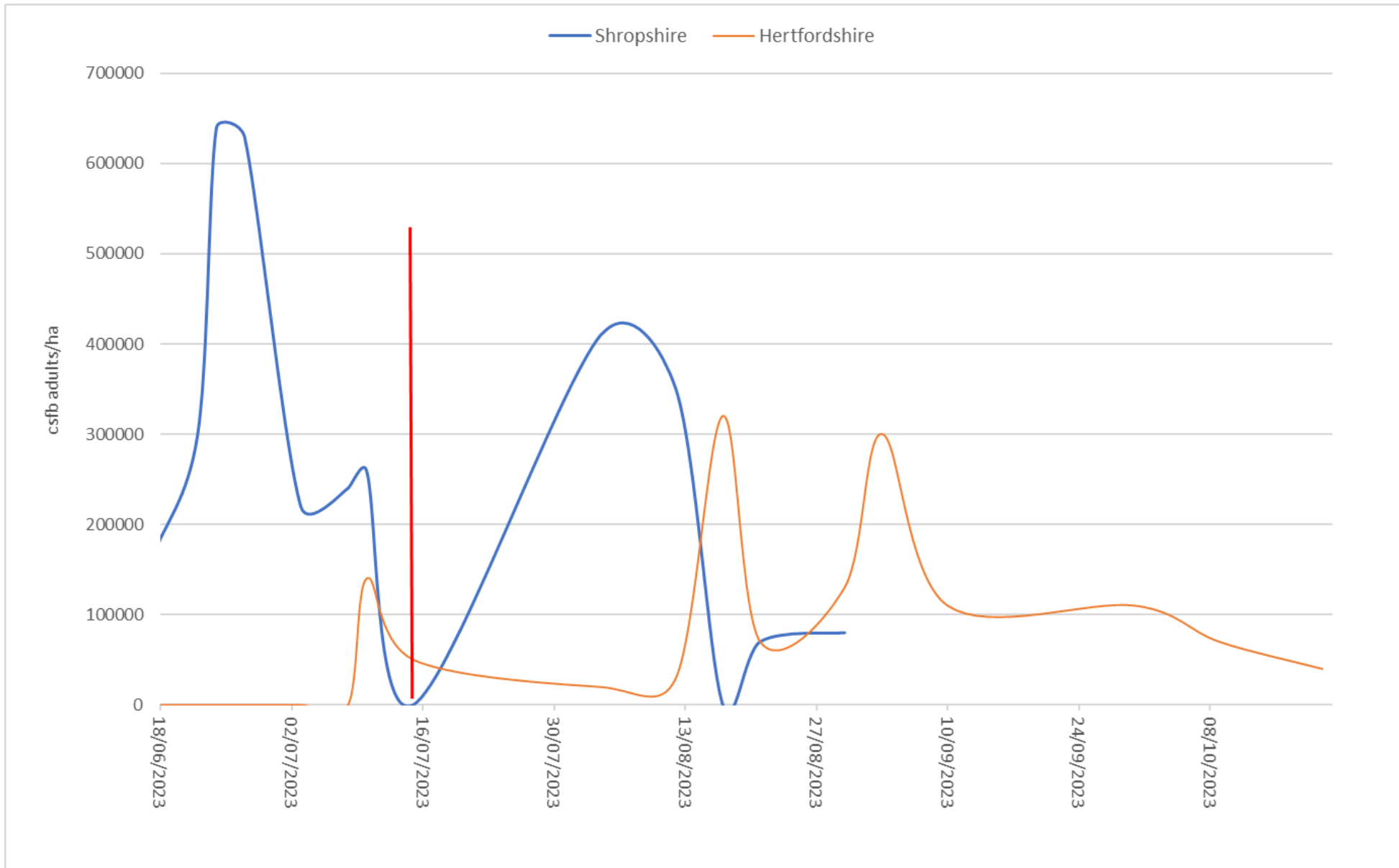
Hertfordshire



Shropshire



Essentially nothing after early August



Terrastar



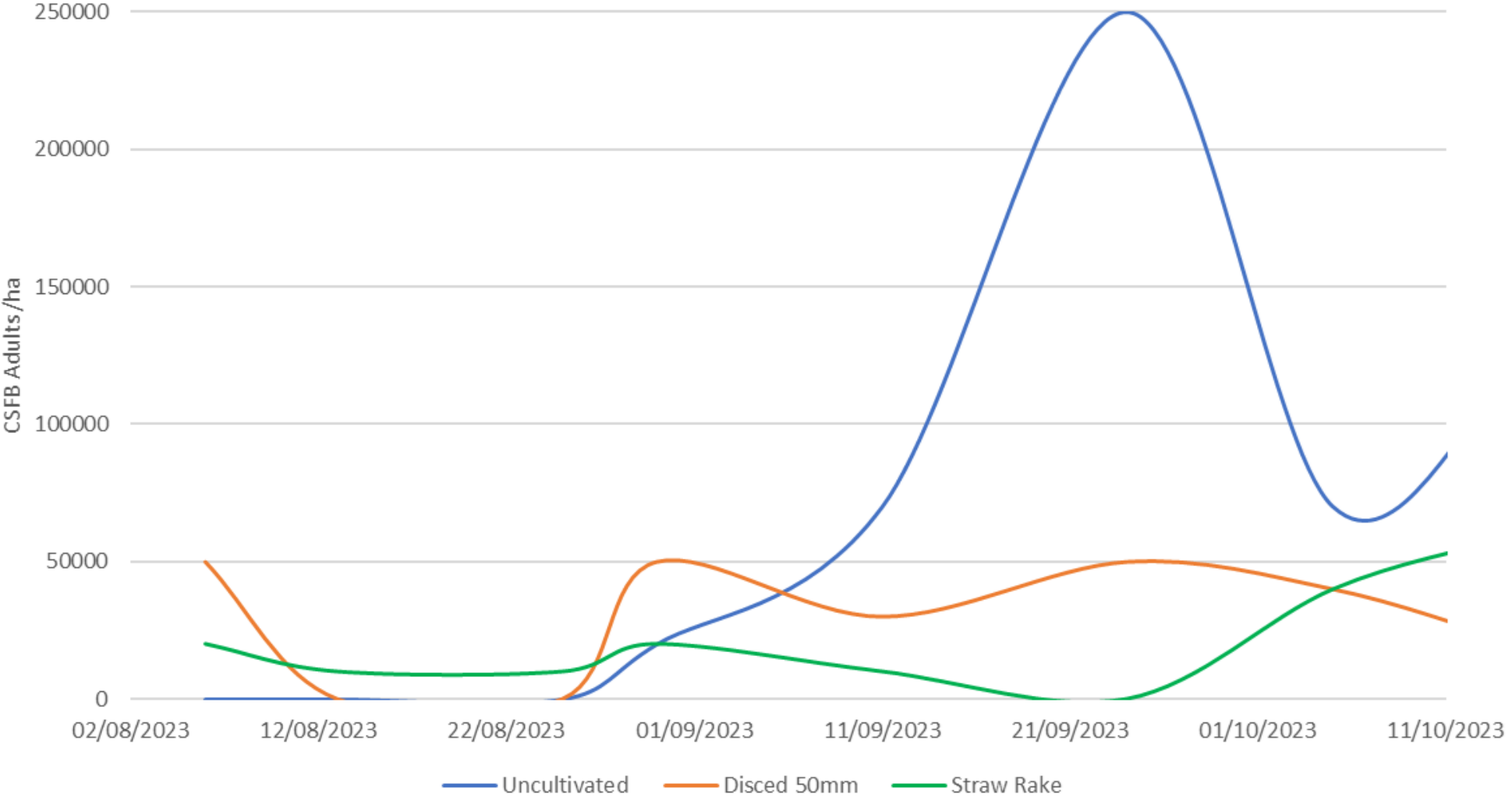
Straw Rake



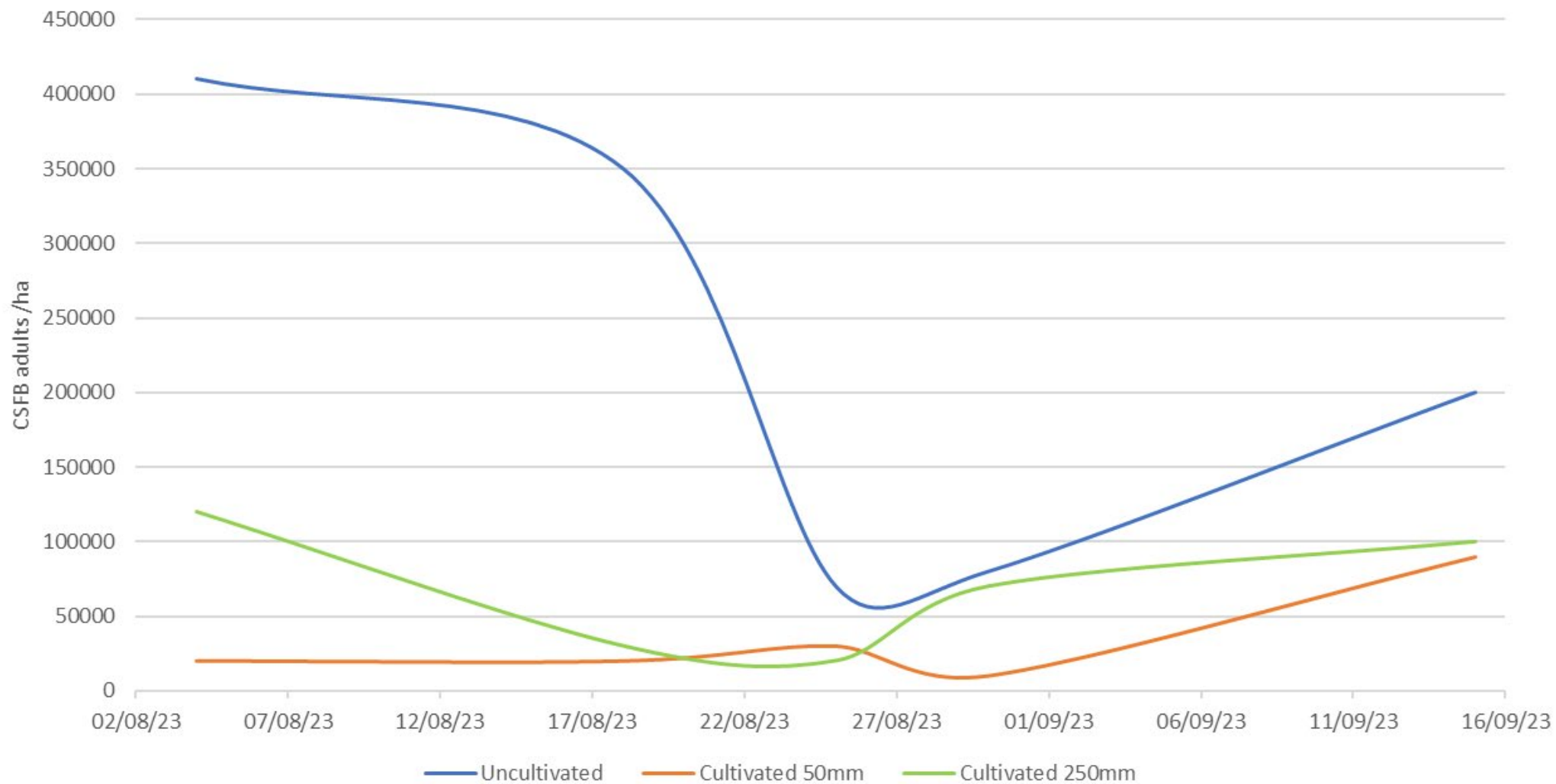
Standard Discs

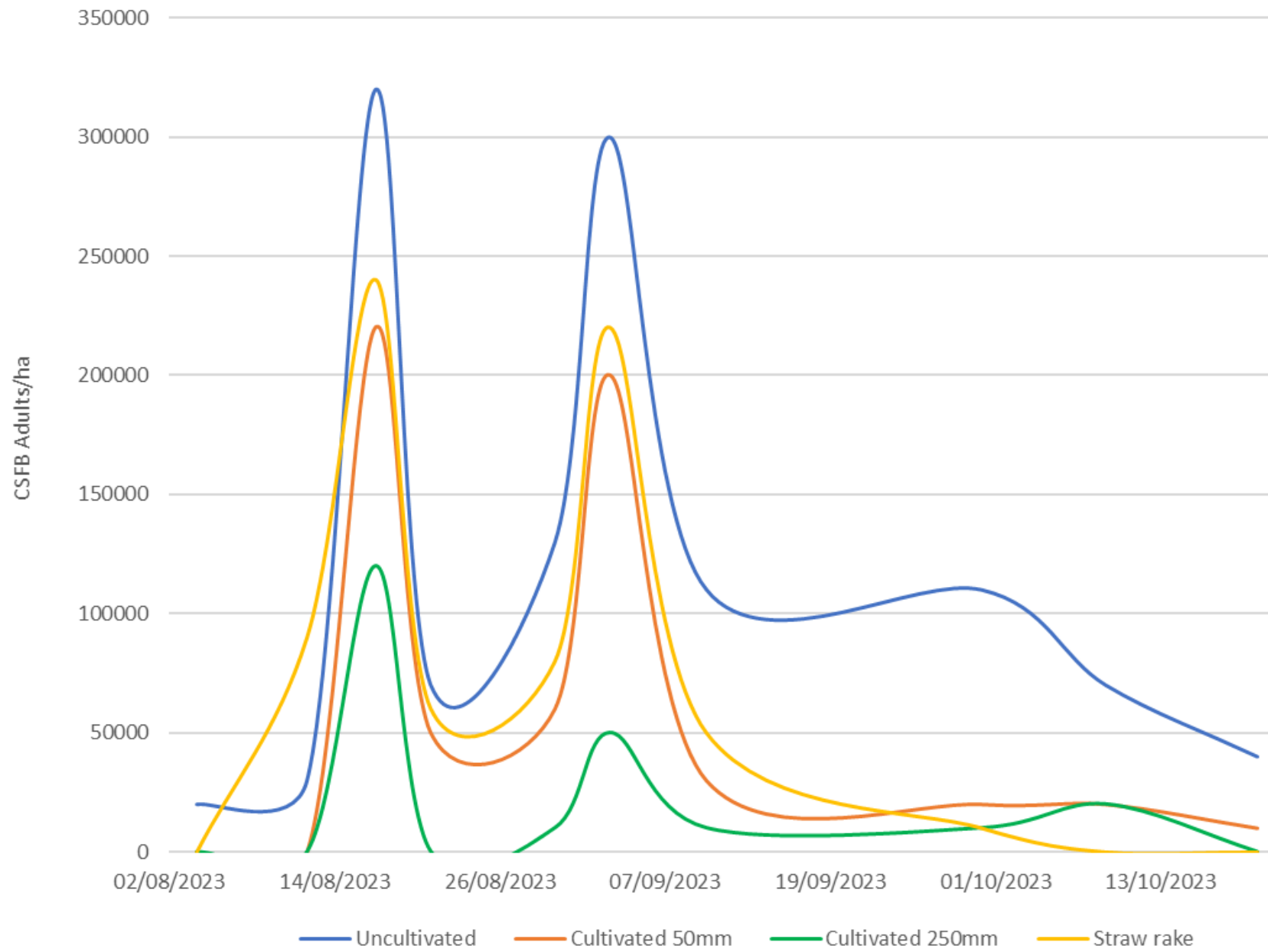


Shropshire



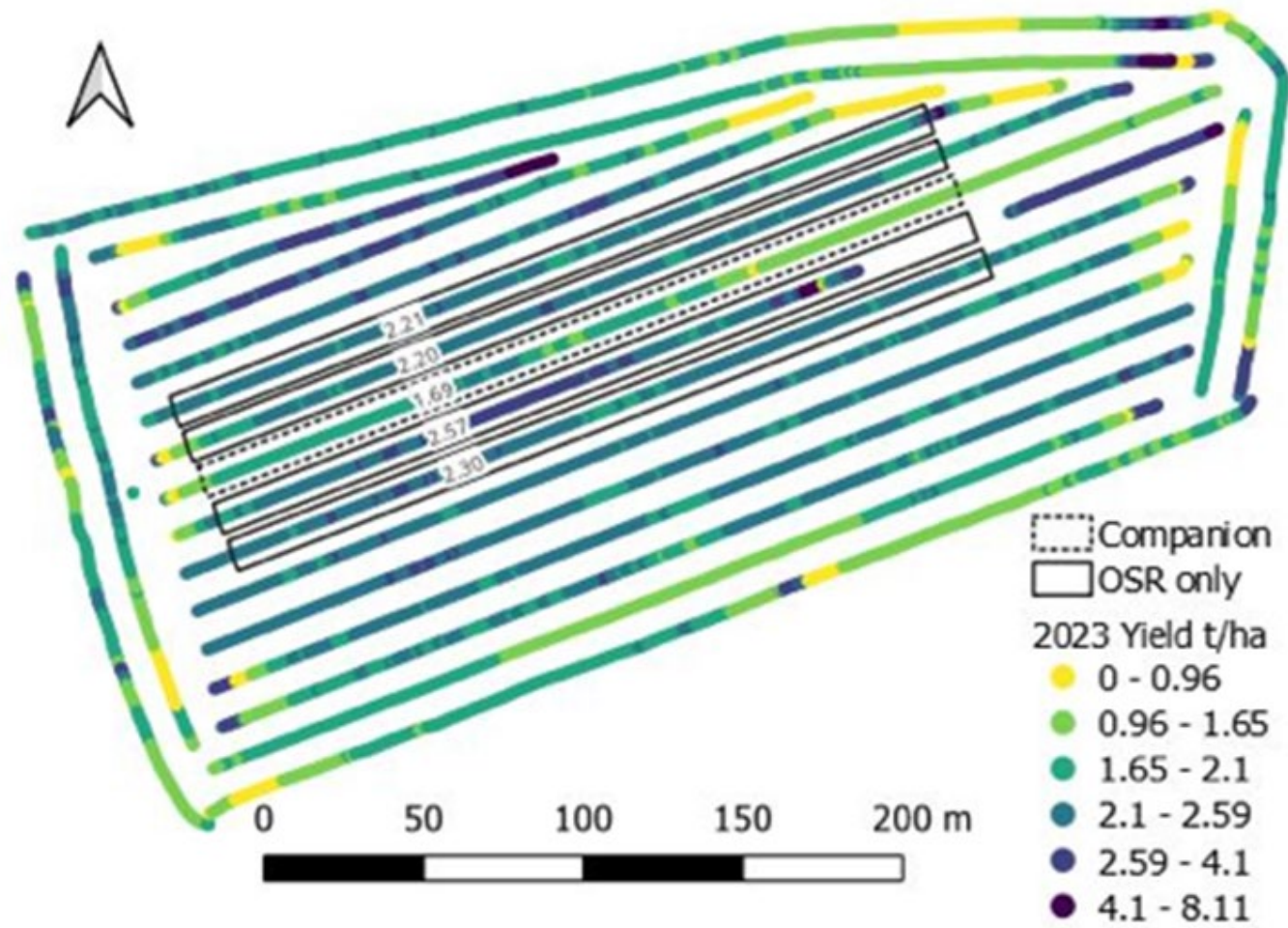
West Shropshire





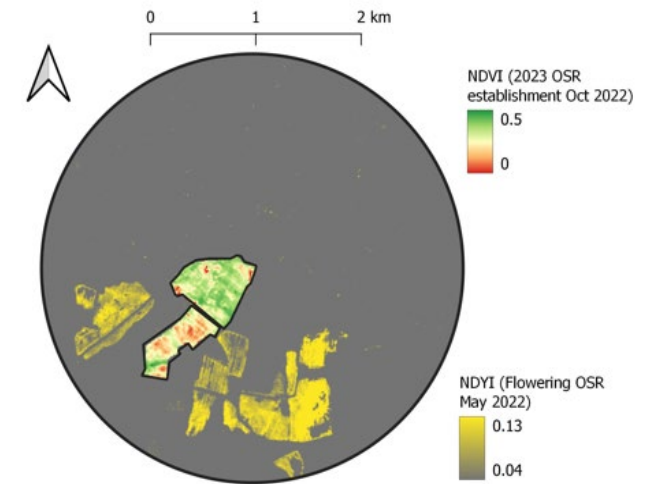
A range of Companion Crops in Oilseed Rape 11/2022





Spatial cropping

- There is increasing anecdotal evidence that growing OSR away from the previous years crop will reduce damage at emergence.
- This is a method being used in Sweden and based on limited data but much discussion! It appears to work much better than the concept of growing adjacent to the previous crop to make use of the volunteers as a trap crop.
- The suggested distance is 2km but this has yet to be tested



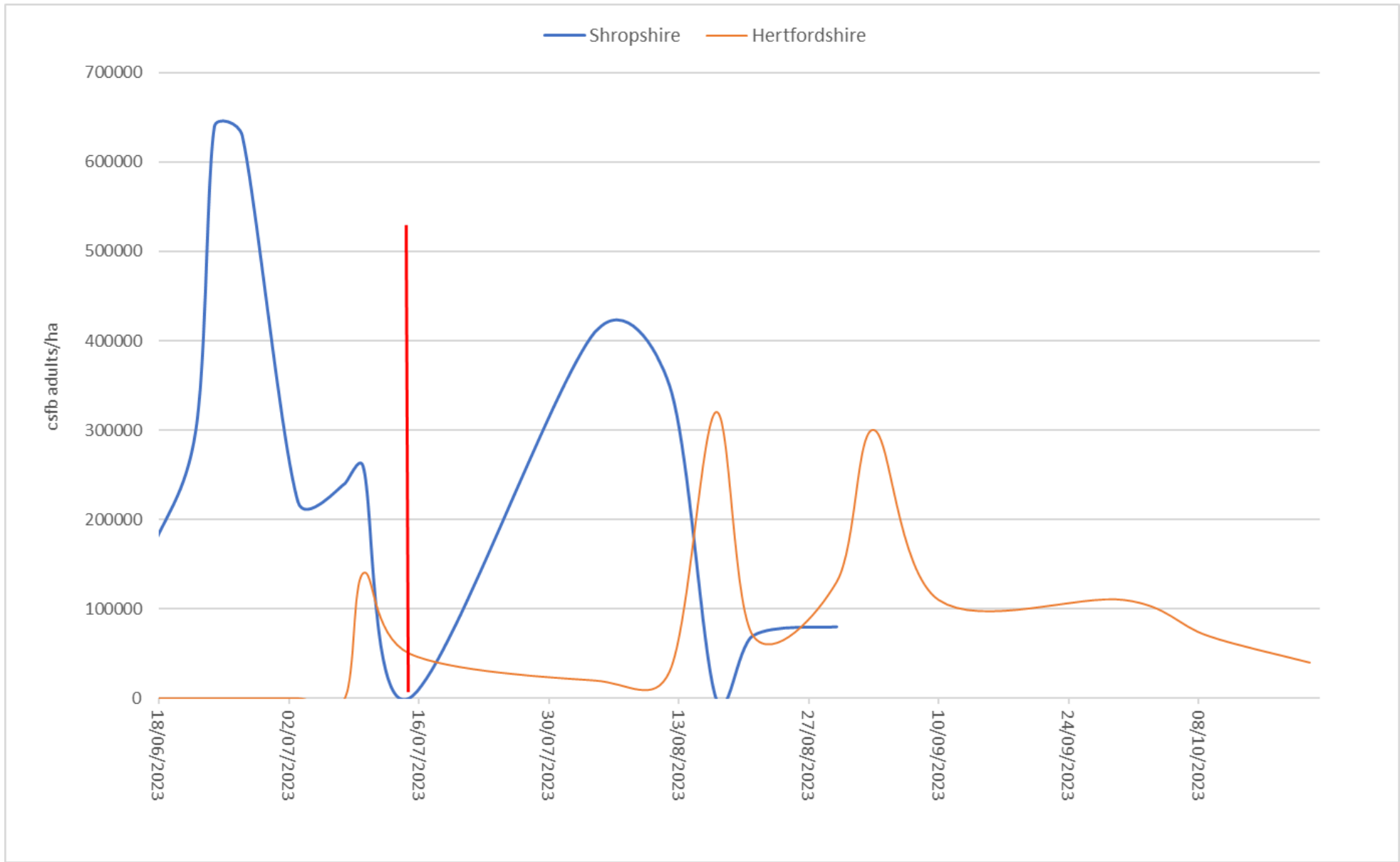
So what do we know now?



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July-October





Forward planning! Understanding the potential csfb pressure

- We soil sample before potatoes and sugar beet to assess PCN and BCN populations before growing
- We assess blackgrass numbers before drilling

There appears to be little effort from growers and agronomists to assess the stem larvae numbers in the current crop which is a very simple process.



Stem larval sampling on farm



Here we can see the plants over buckets containing a little water and a surfactant and the resultant larvae in a bucket (that was ten plants)

Thank you



world-class experience,
skills and resources