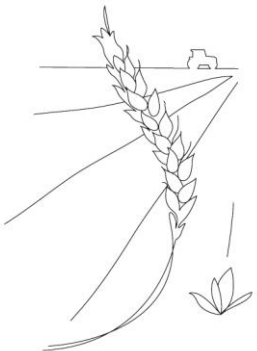


Experiences of BYDV in southern Sweden during 2014/2015

Gunilla Berg
Swedish Board of Agriculture,
Alnarp, Sweden



Winter barley – severe problems pictures 23th of April 2015



Winter barley, southern Sweden

Photo: Christer Pålsson Krageholm



BYDV



Rye, Foto A. Adholm
HIR Skåne



Winter wheat 29 april
Foto: D. Gottfridsson HIR Skåne

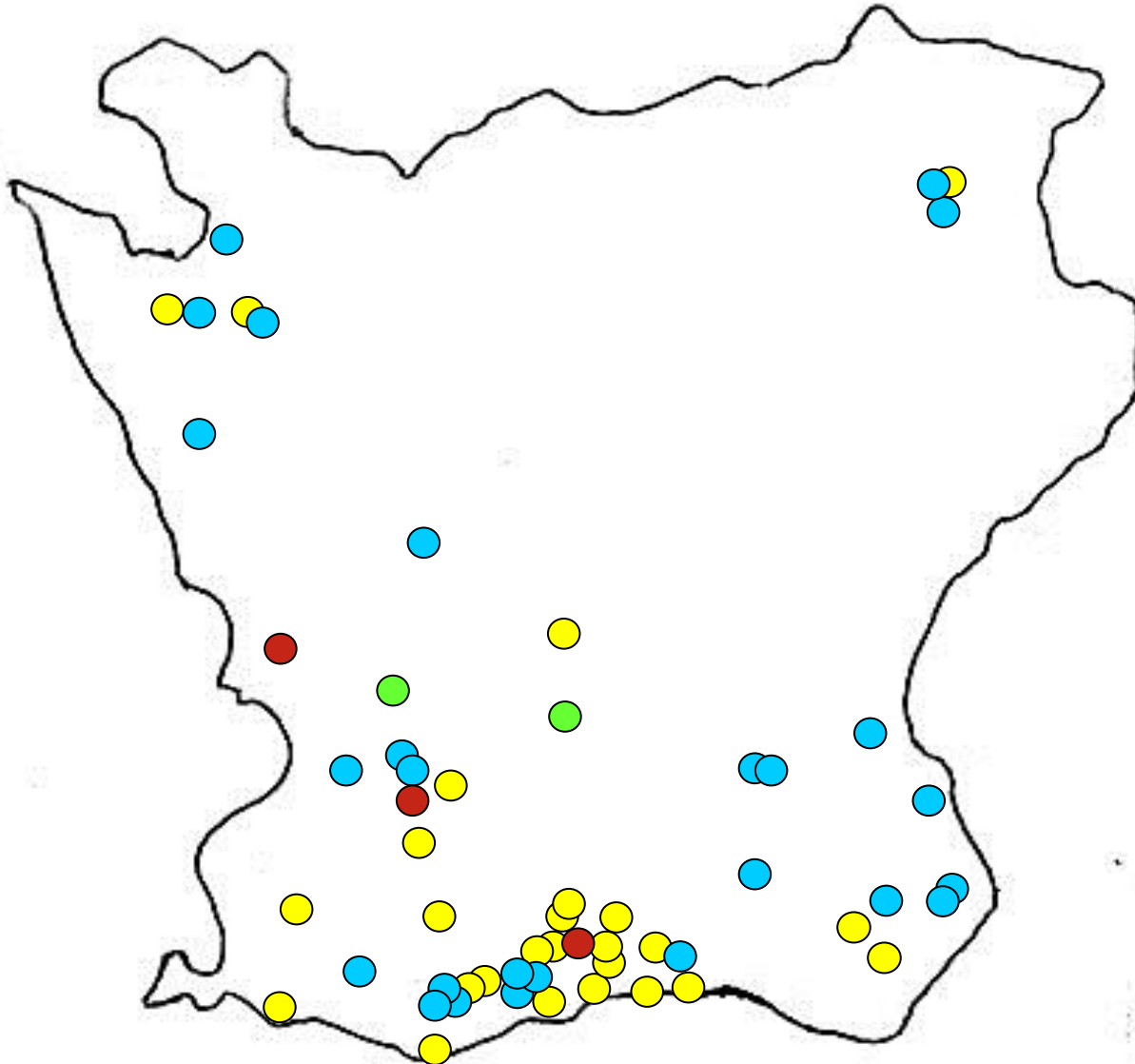


Triticale,
Foto: I. Sähle
Lantmännen



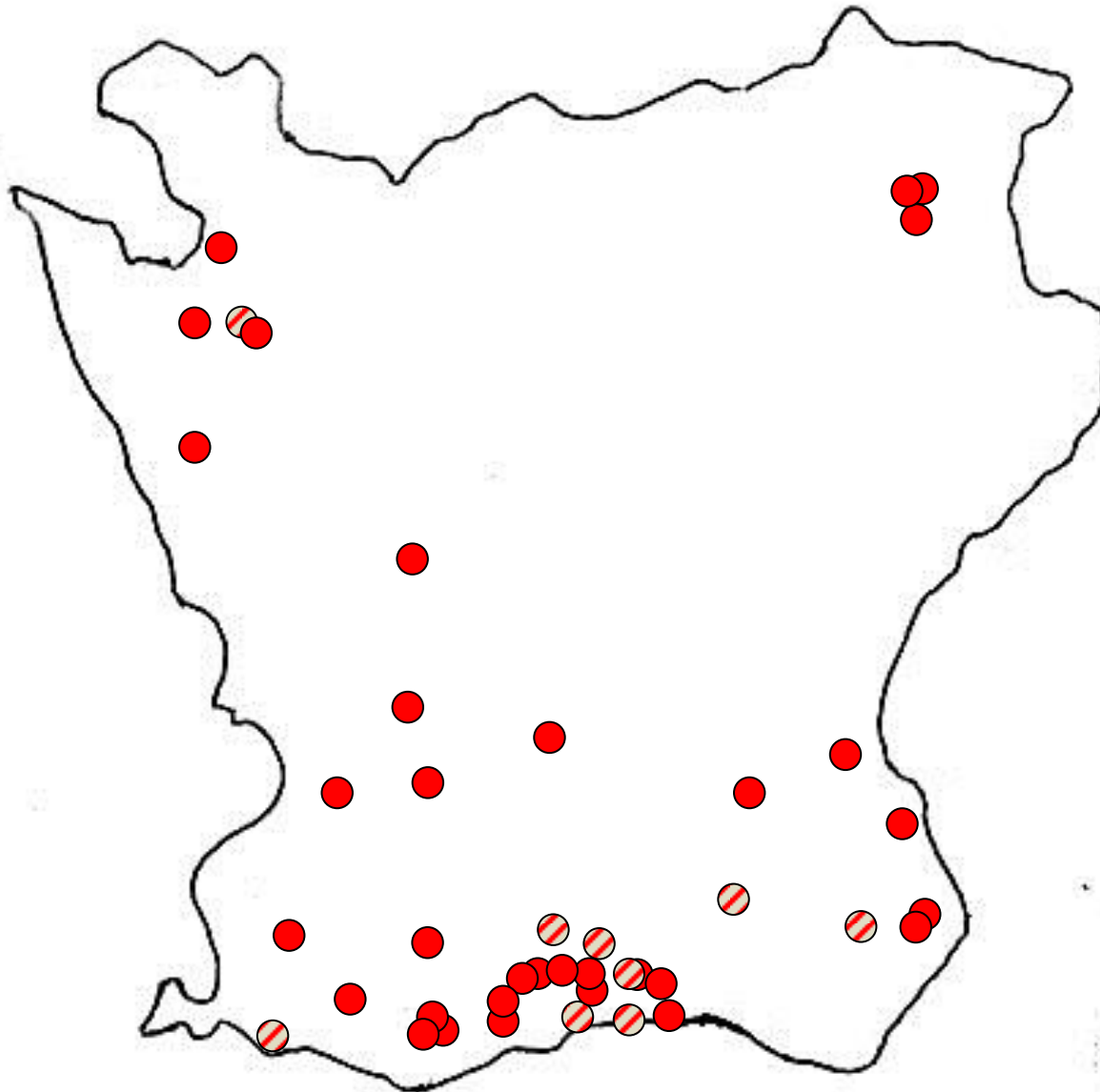
Winter wheat 9th of May

Many samples for ELISA-tests, all part of Scania



- Winter wheat
- Winter barley
- Rye
- Triticale

Test results ELISA most samples positiv for both PAV and MAV

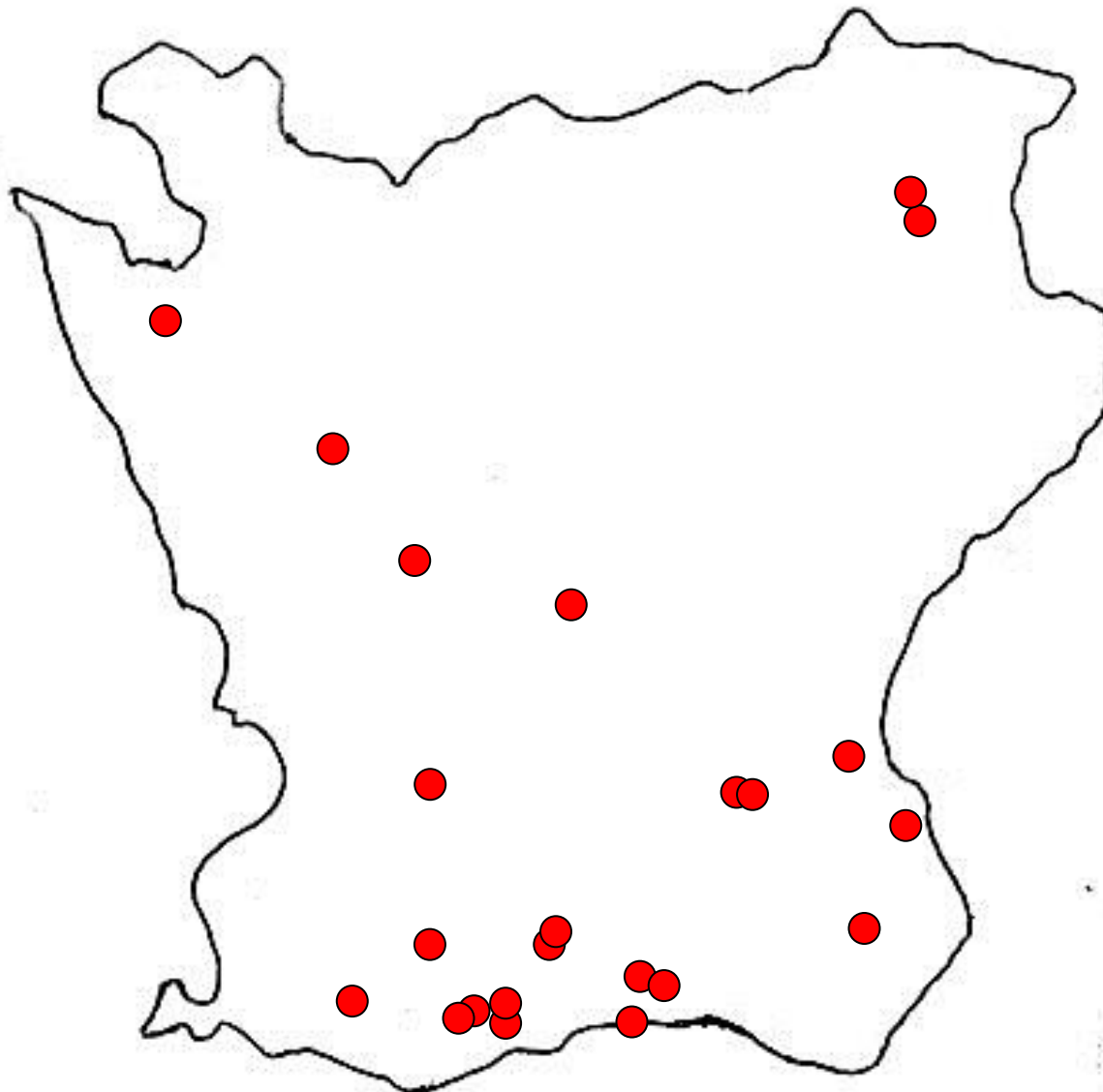


● PAV and MAV

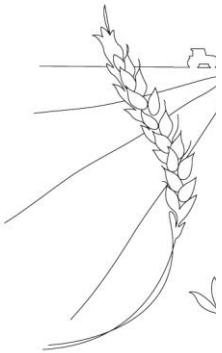
◌ Only PAV



50 % (23/47) of the samples tested also
positiv for **BYDV - RPV**

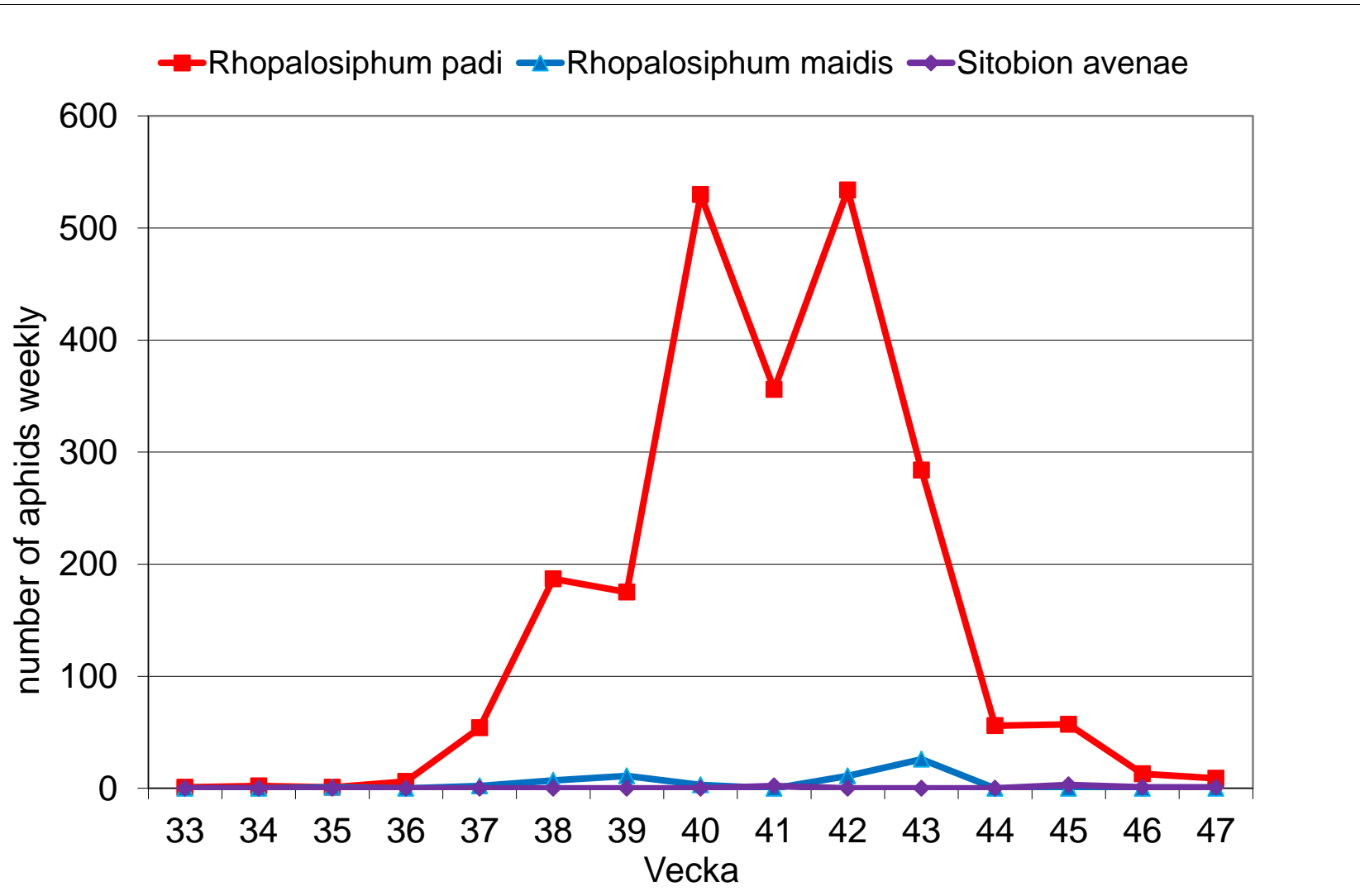


● Positive



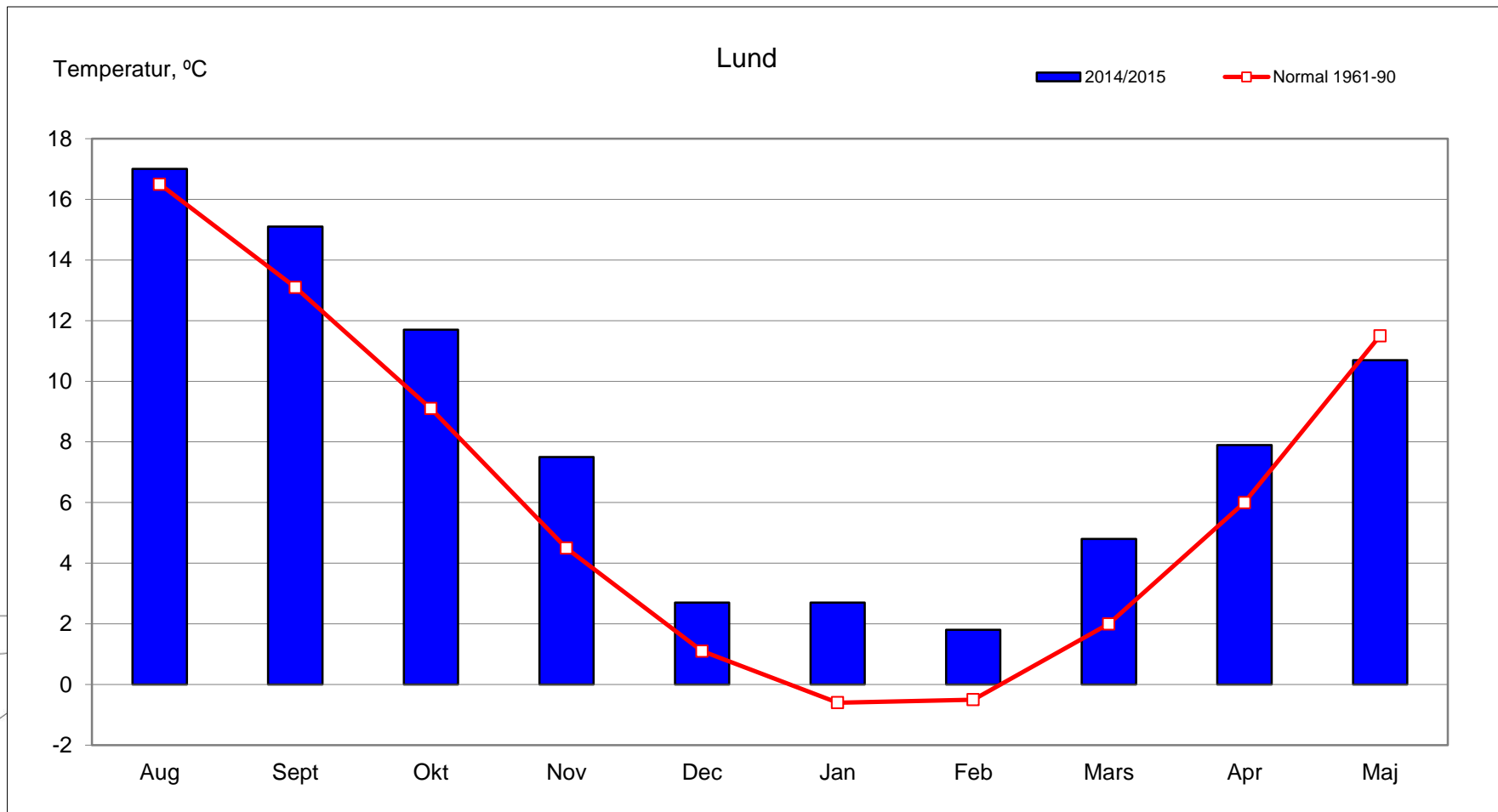
Suction trap Alnarp 2014 August -November

aphids weekly *R padi*, *R maidis*, *S avenae*



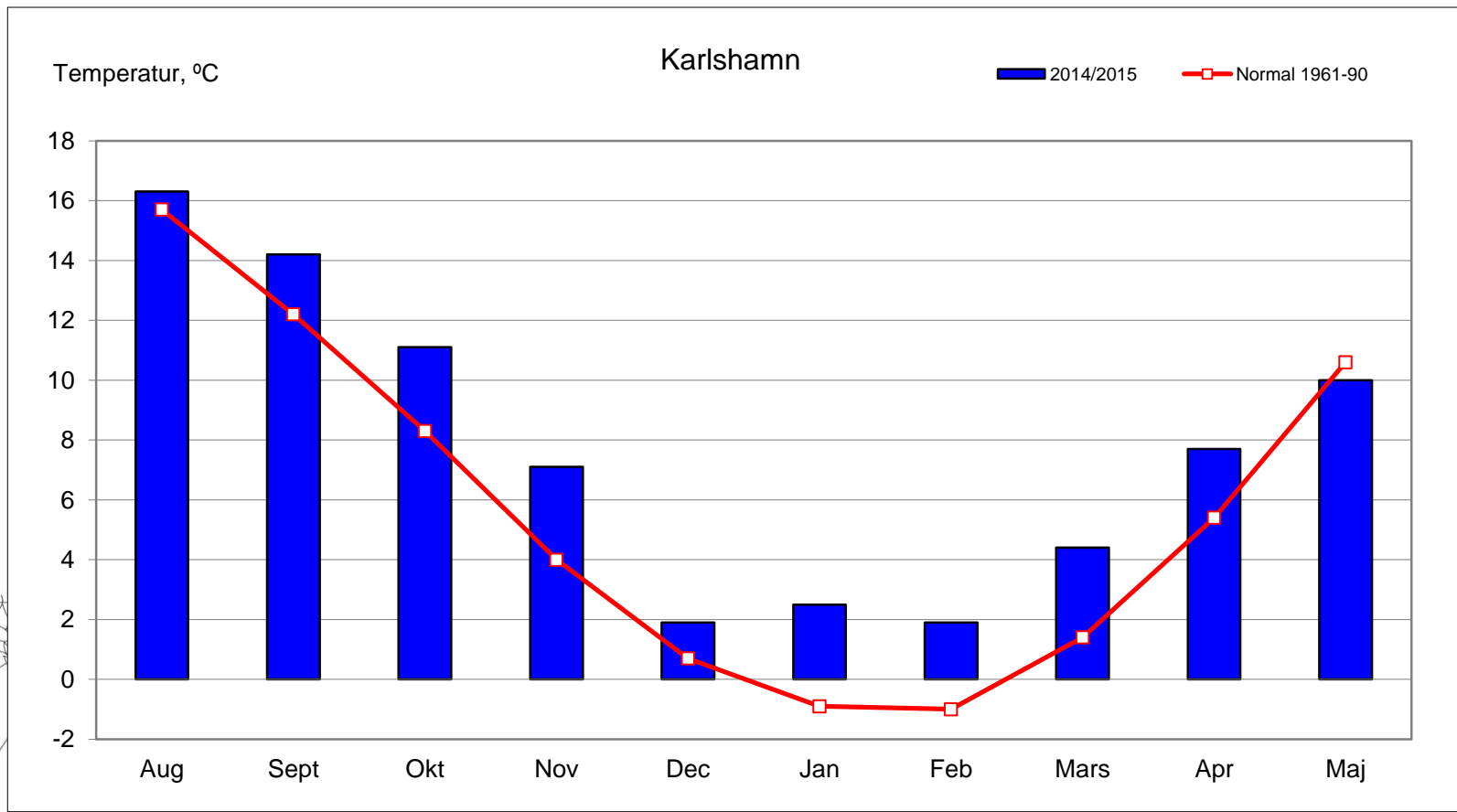
Temperature °C Lund 2014/2015

source:SMHI

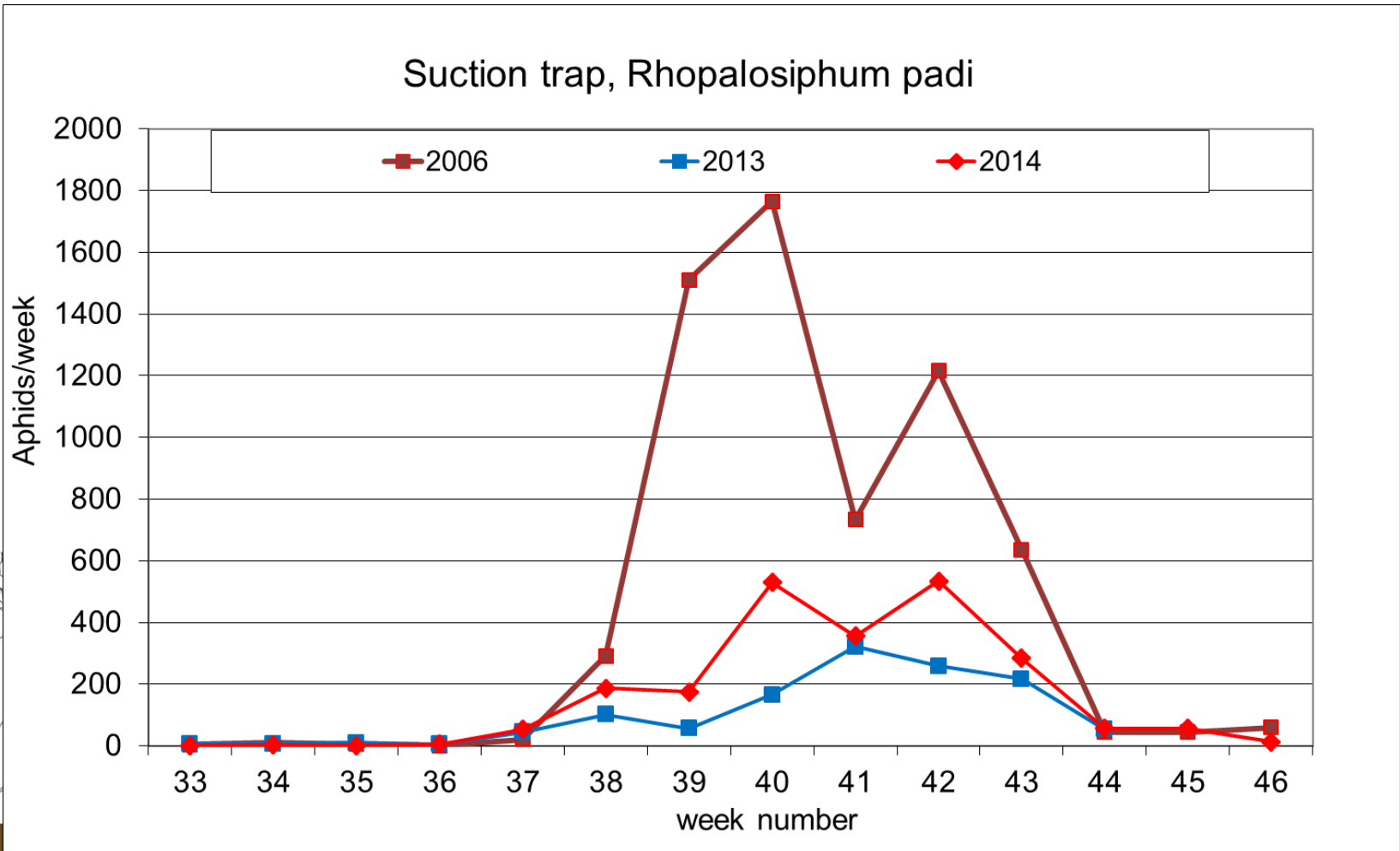


Temperature °C Karlshamn 2014/2015

source:SMHI



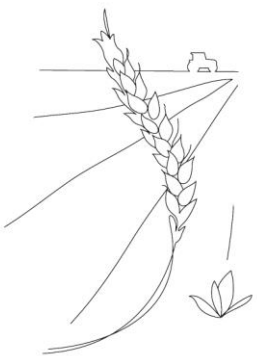
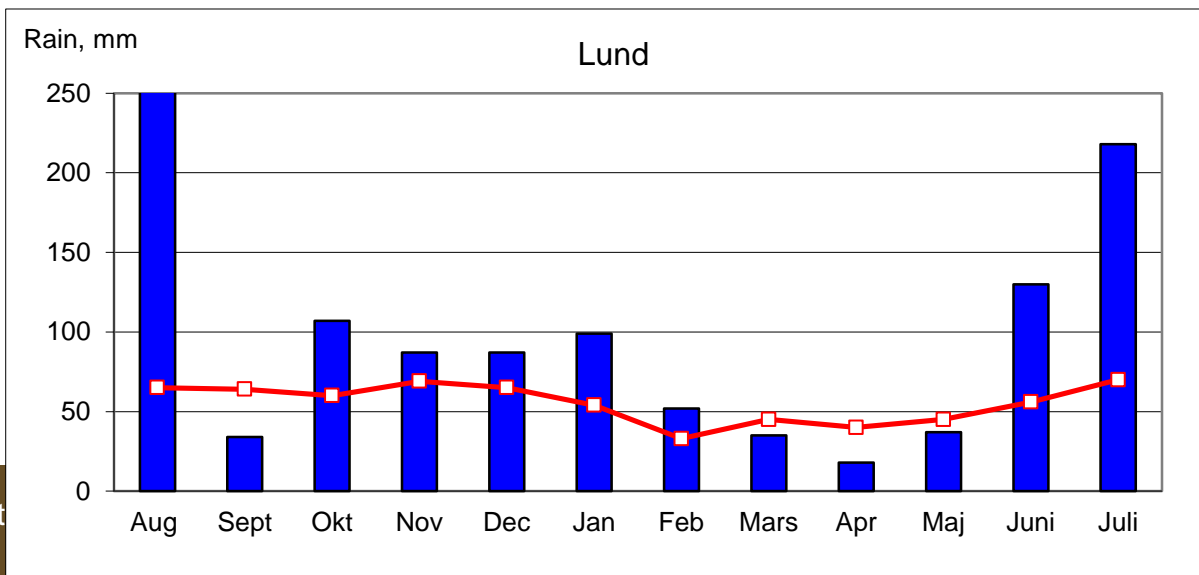
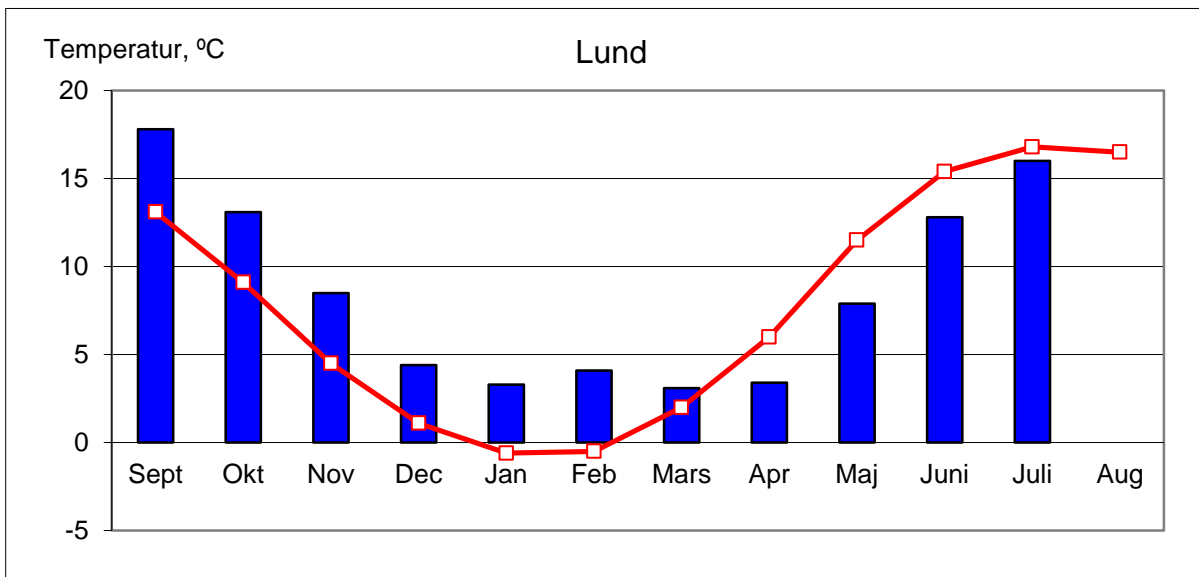
Suction trap Alnarp



Weather Lund 2006/2007 (source SMHI)

Autumn 2006 3,5 - 4,5 °C above normal (Sept-Febr)

Aug 2006 much rain – late sowing-date



Trial winter wheat L7-1014B Kattarp

Observation 1th of June 2015

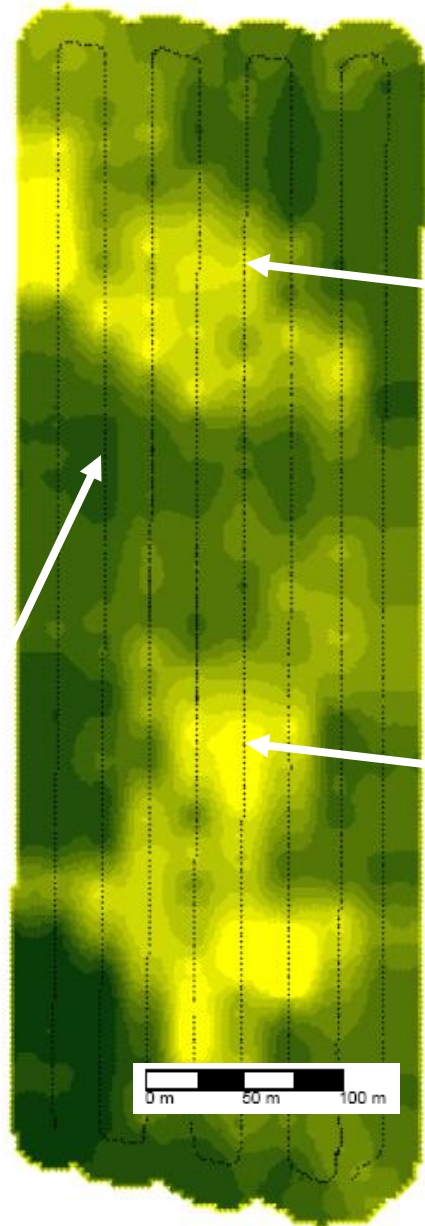
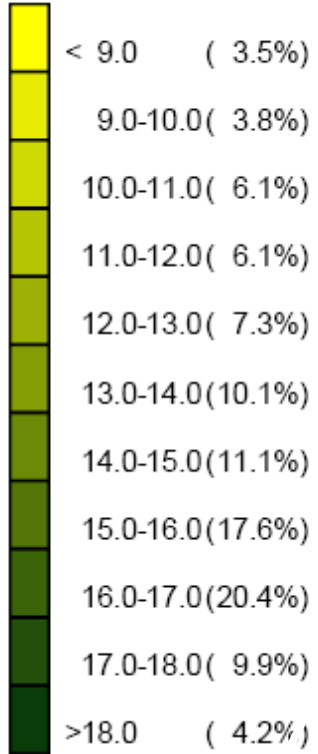
More BYDV
Early sowing
Low density of the crop ?

Sowing date	Density	Variety	BYDV %
16-sep	100 k/m ²	Julius	3
	300	Julius	4
	500	Julius	2
	100	Brons	2
	300	Brons	2
	500	Brons	2
29-aug	100	Julius	26
	300	Julius	13
	500	Julius	11
	100	Brons	31
	300	Brons	20
	500	Brons	16





2007 field trial winter wheat, Scanning field with N-sensor





Yield impact

Source: Torbjörn Ewaldz SJV

	Biomass	Yield and yield decrease, t/ha	Yield rel no.
	>17	10.67 a	100
	15-17	-2.14 b	80
	13-15	-3.21 c	70
	11-13	-4.79 d	55
	<11	-6.99 e	34
	Prob.v.	<0.0001	
	CV	6.8	
	LSD	0.68	

Total yield loss in field approx. 20%, compensating for normal yield variability!