

# Geese and crop damage in Sweden

*“Who, where, when and what”?*



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SWEDISH WILDLIFE  
DAMAGE CENTER

# Data used – Swedish compensation scheme

2,194 inspected and approved reports between year 2000-2015

Canada - not eligible

Greylag - partly

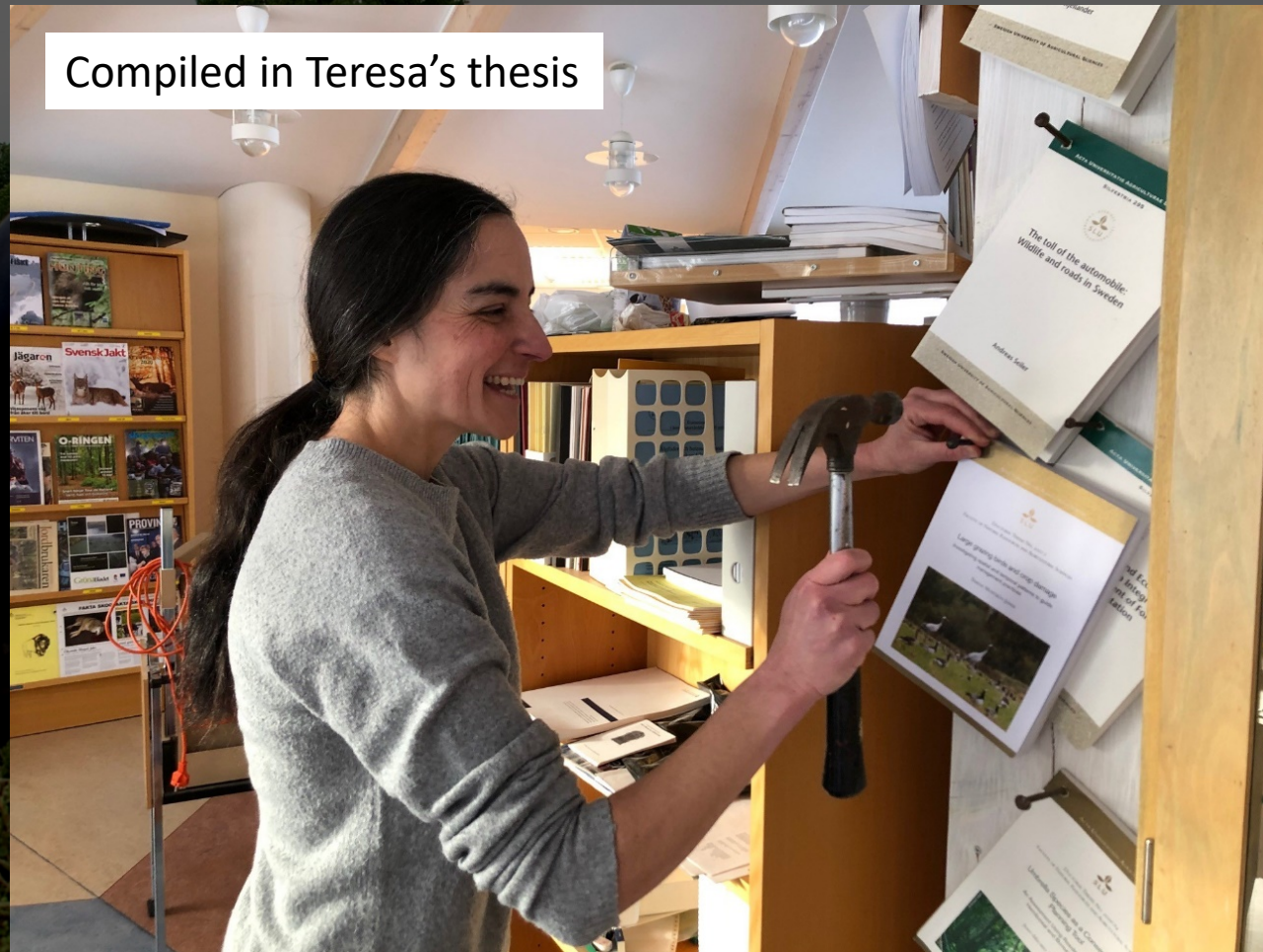
Barnacle & bean - eligible



# Data used – Swedish compensation scheme

2,194 inspected and approved reports between year 2000-2015

Compiled in Teresa's thesis



# Goose abundance - Sweden, 2018-2019

	<b>September</b>	<b>October</b>	<b>November</b>	<b>January</b>
White-fronted	14	1628	4056	5046
Bean (taiga and tundra)	8208	68,119	42,631	39,175
Pink-footed	99	2546	376	264
Greylag	169,888	123,850	55,961	55,710
Lesser white-fronted	79	31	1	0
Canada	29,231	15819	18,564	54,865
Barnacle	33,231	178,391	307,623	59,660
Brent	300	558	44	0
<b>Total</b>	<b>241,036</b>	<b>389,314</b>	<b>425,200</b>	<b>209,674</b>

Who?

Don't forget – also other species in the system

Pairs

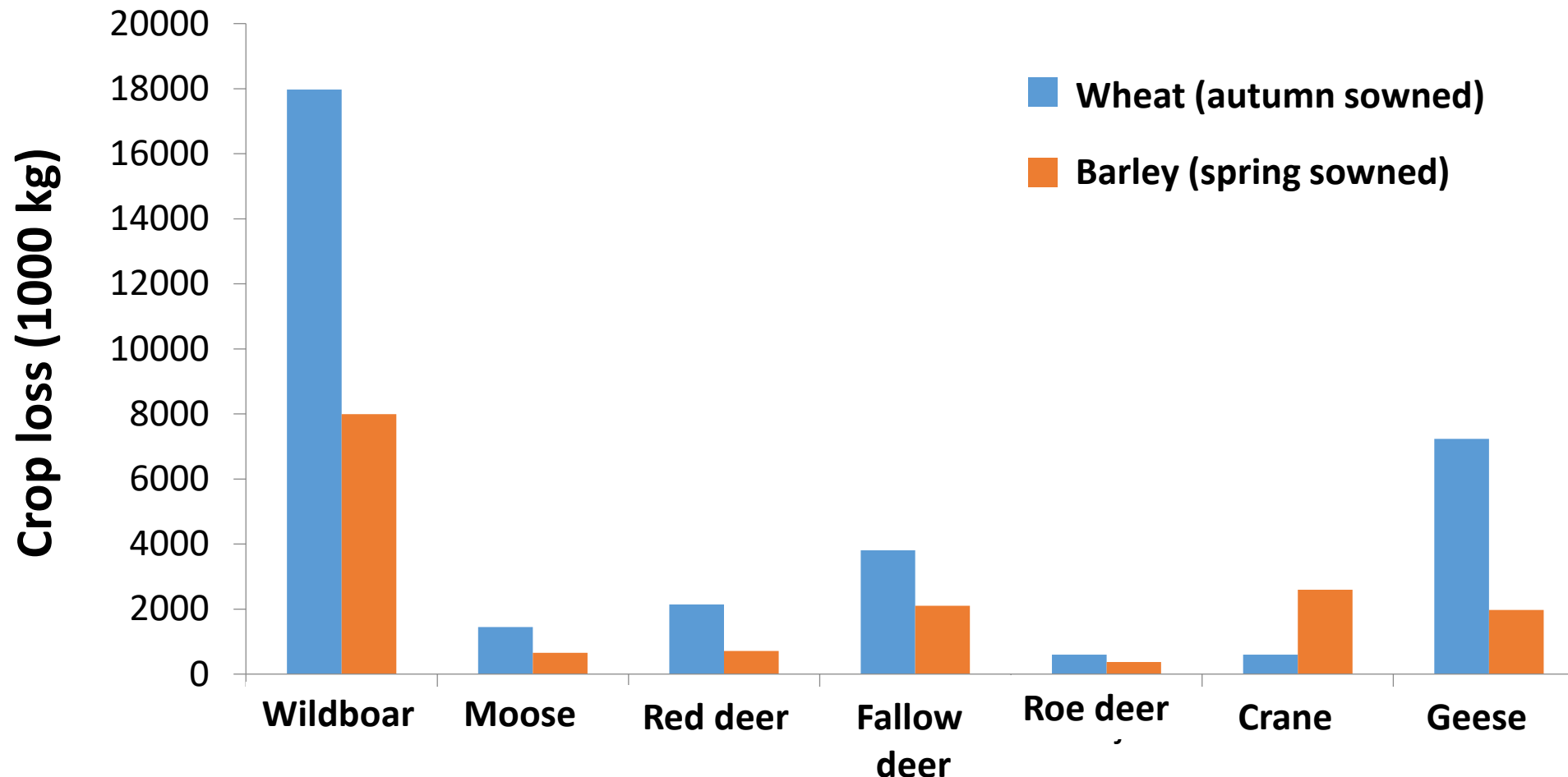
- Common Crane 30 000
- Whooper swan 5 400
- Greylag 41 000
- Bean 850
- L. white-fronted 20
- Canada 17 000
- Barnacle 4 900



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# ...and even more species... Estimated loss by farmers

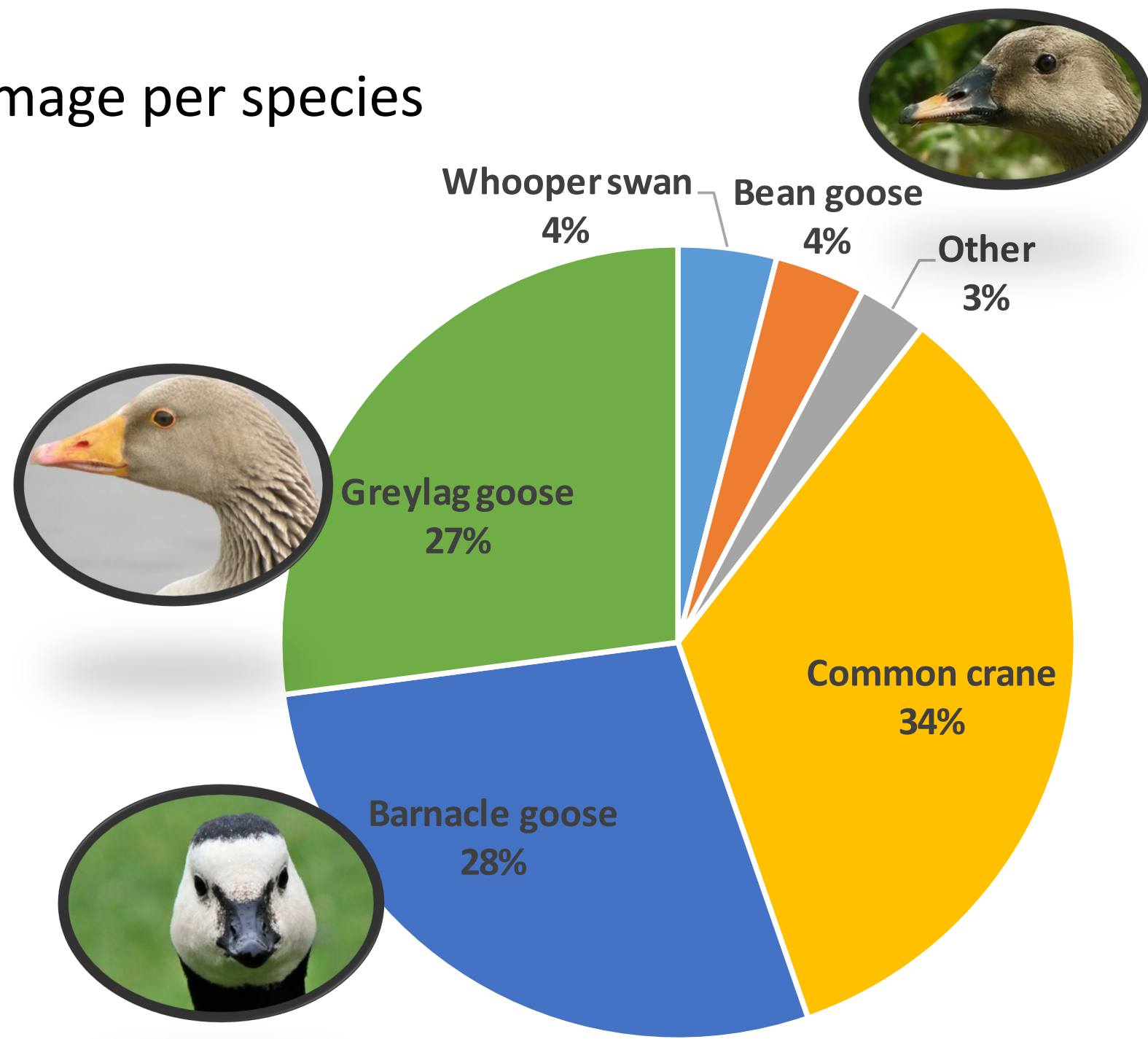
**Wildlife damage to agricultural crops in Sweden (questionnaire 2014)**



Who?

# Proportion of damage per species

n=2,194 reports



When?

# Timing of goose damage in Sweden





# Crop damage



Damage – late summer  
31 August before birds arrive

Photo:



Länsstyrelsen  
GOTLANDS LÄN

13 days later (13 Sept)

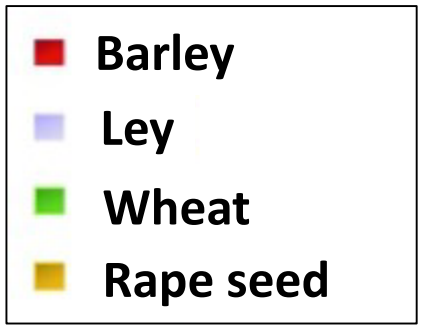
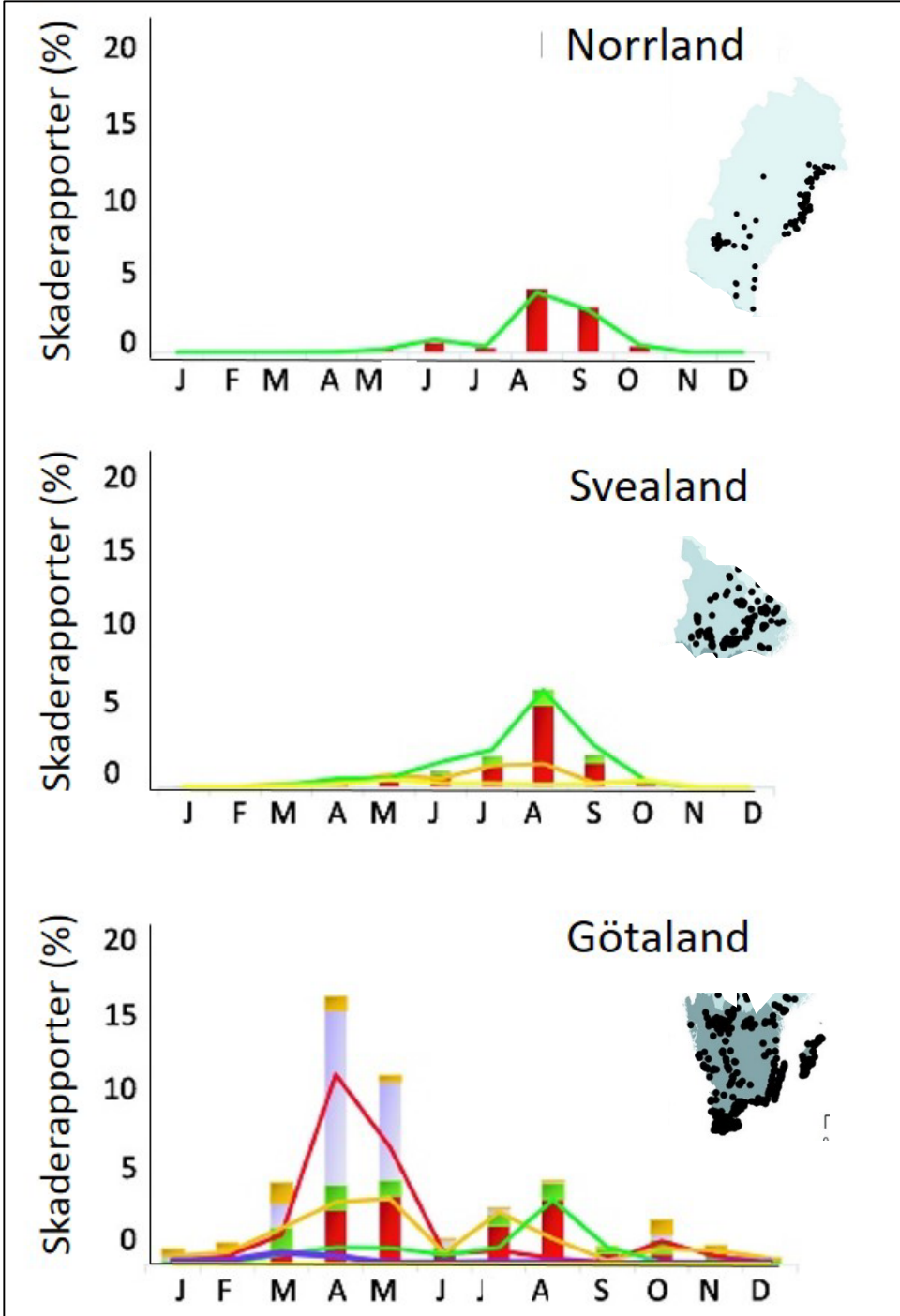
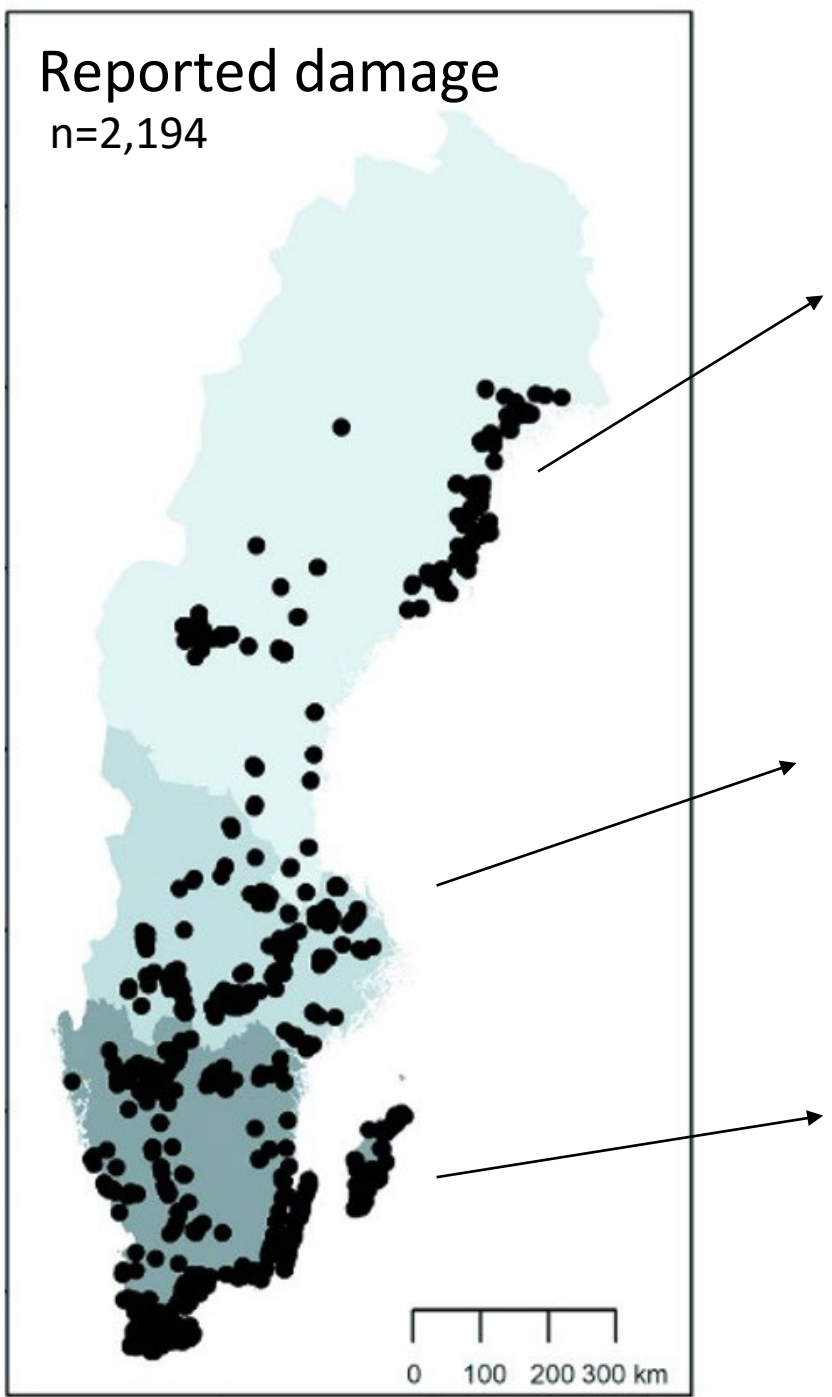


2 days later(15 Sept) – field harvested by cranes and greylags



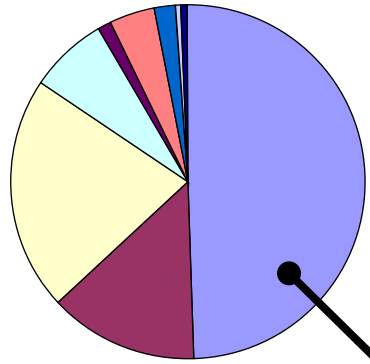
Where?  
When?  
What?

Reported damage  
n=2,194



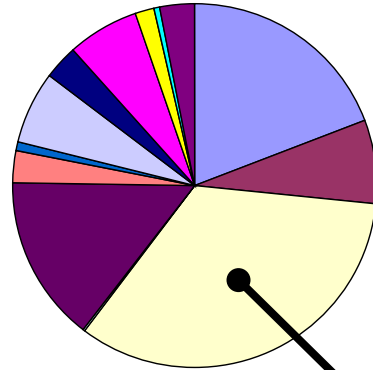
# Reported damaged crops differ between species

### Barnacle



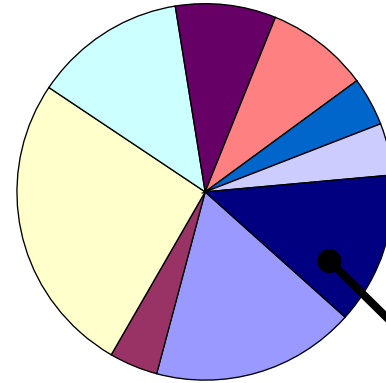
Ley/pastures

### Grey lag



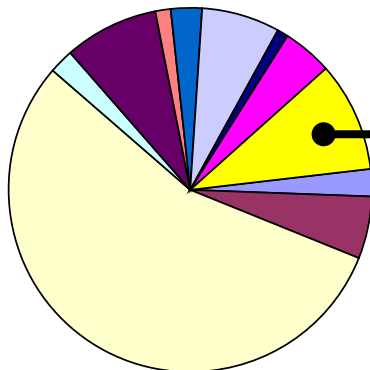
Barley

### Bean



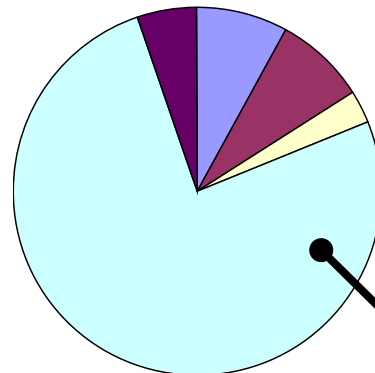
Carrot

### Common crane

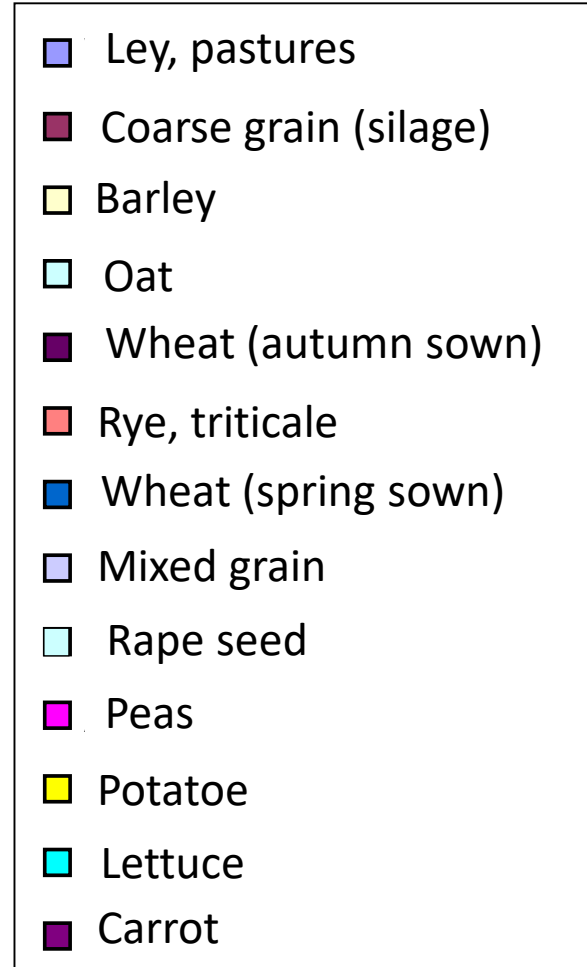


Potatoe

### Whooper swan



Rape seed

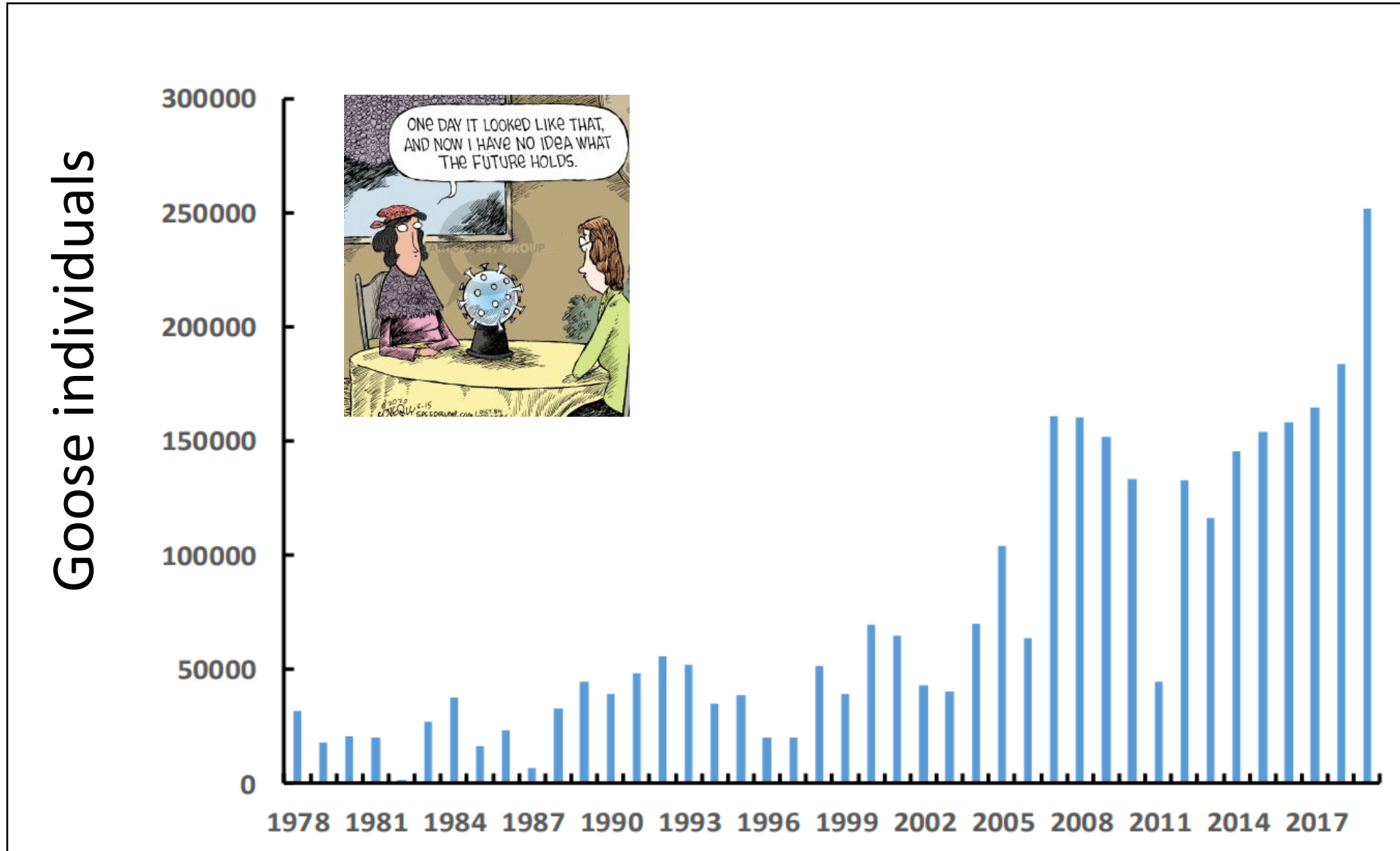


# Future?



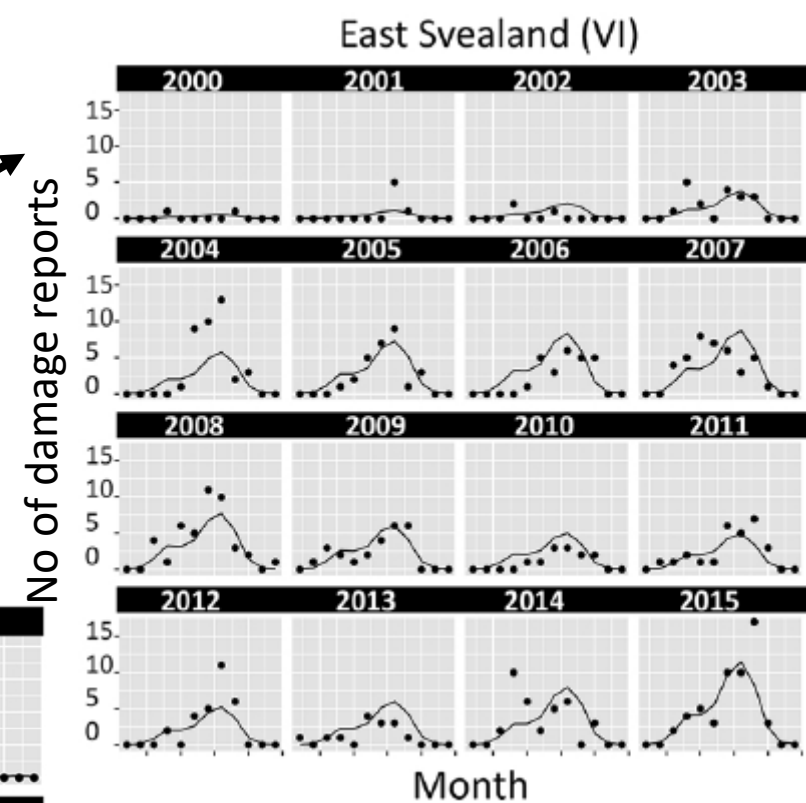
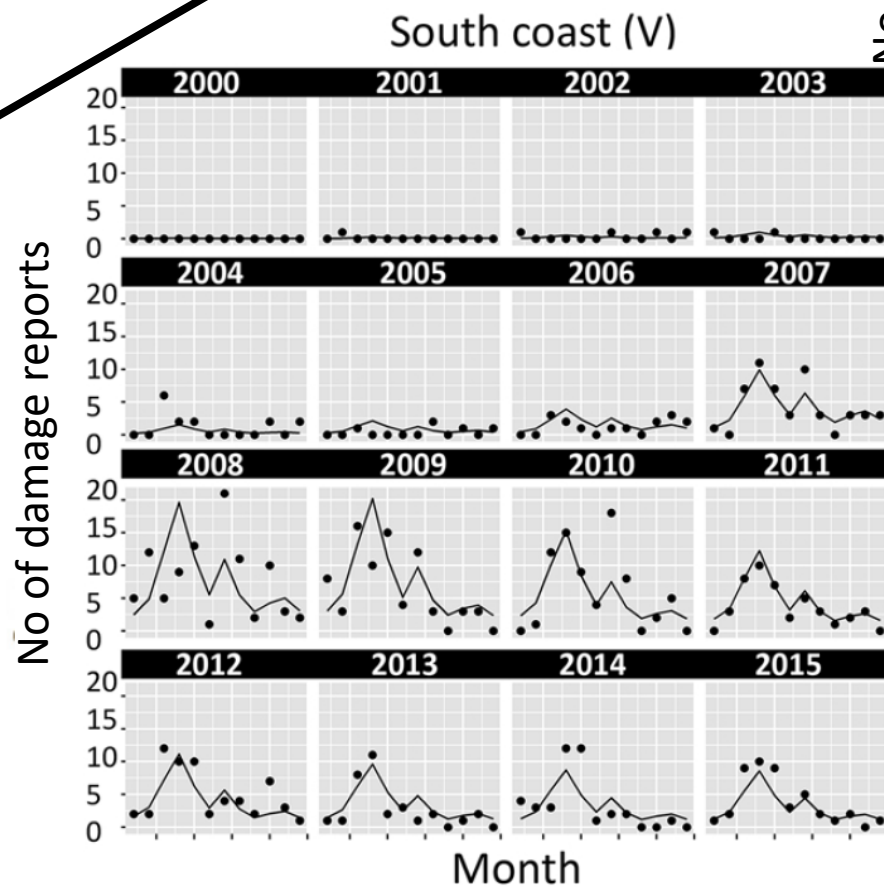
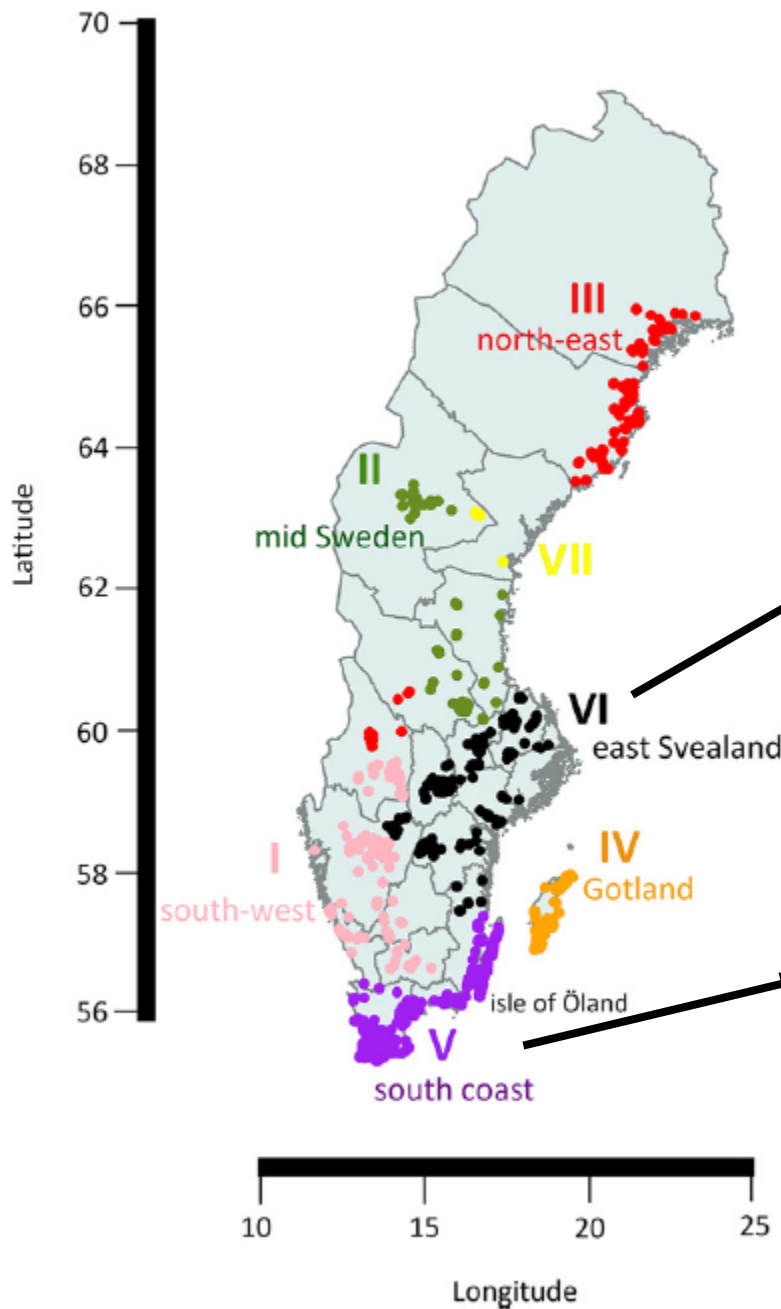
Future?

# Increasing goose numbers in January



*Nilsson and Haas 2019*





## Thanks to

Tomas Pärt

Ingunn Tombre

## Funding

Swedish EPA

FORMAS

SLU



FORMAS



# Compensation and subsidies

