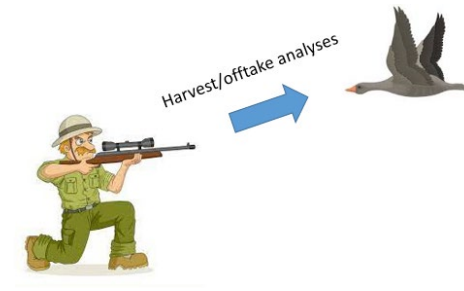


Updates from the EGMP Data Centre

GREYLAG GOOSE



Greylag Goose (AFMP)



*“establish an internationally coordinated population management programme (including both hunting and derogations) for the management units encompassing **monitoring, assessment and decision-making protocols**”.*

- Info-gap ends in 2023
- Dynamic and model based harvest assessment
- Project proposal by EGMP Data centre (MU1 and MU2)
- Funded project by the Dutch Modelling consortium (MU2)





Data needs

Up to 2023:

- Mid-winter population counts for each range state (IWC imputed values and/or additional country-specific data);
- Total offtake by derogation and harvest.

Needed for a transition to a dynamic and model-based management from 2023:

- Mid-winter population counts for each range state;
- Breeding pairs/Summer counts per range state;
- Offtake per range state (harvest + derogation), distinguished between "breeding" period (1 February-31 July) and "post-breeding" period (1 August-31 January);
- Crippling rate for the same periods as offtake
- Survival rates from Multi-state Capture-Marking-Resighting (CMR) analysis
- Productivity estimates

Red: Missing information

Monitoring and reporting plan

When	Where/Who	What	Submission deadline to the EGMP Data Centre
January	All: Wetlands Int. And NO: Relevant (few)? SE: Leif Nilsson FI: Relevant (few)? DK: Preben Clausen DE: Babak Miller NL: Kees Koffijberg BE: Koes Devon FR: ? ES: Mariano Rodriguez Alonso/ Guillermo Ceballos PO: ?	Population counts	March



Red: Missing information

When	Where/Who	What	Submission deadline to the EGMP Data Centre
	<p><i>MU1</i> NO: John Atle Kålås SE: Åke Lindström FI: Antti Below/Andreas Linden DK: Thomas Vikstrøm/Daniel Palm</p> <p><i>MU2</i> DE: Babak Miller NL: Christ van Turnhout BE: Koes Devon</p>	Breeding common bird monitoring indices	March

Red: Missing information

When	Where/Who	What	Submission deadline to the EGMP Data Centre
	NO: Ingunn & Ove Martin SE: Per Risberg og Niklas Liljebäck FI: Mikko & Janne Pitkanen DK: Thomas Kjær DE: Babak Miller BE: Floris Verhaeghe FR: Matthieu Guillemain ES: Guillermo Ceballos	Hunting bag	Start May
	EU: ? NO: Ingunn & Ove Martin SE: Per Risberg og Niklas Liljebäck (2020) FI: Mikko & Janne Pitkanen (2020) DK: Anders Jensen (2020) DE: Babak Miller (2020) NL: Kees Koffijberg (2020) BE: Floris Verhaeghe	Derogation numbers <ul style="list-style-type: none">• Better understanding on methods of deriving harvest estimates from SE and DE• Insight in data quality issues in derogation numbers in NL	Start May



When	Where/Who	What	Submission deadline to the EGMP Data Centre
MU1: August	<i>MU1</i> NO: Ingunn Tombre (2021, 2022) SE: Johan Månsson (NA)	Population count of breeding, staging, moulting birds	Under development
MU2: July	FI: Andreas Linden (2021, 2022) DK: Henning Heldbjerg (2021) <i>MU2</i> NL: Kees Koffijberg (2021?) BE: Koen Devos (2021?) DE: Babak Miller (2021?) FR: (few) (2021?)		
August	<i>MU1</i> NO: Ingunn Tombre (2021, 2022?) SE: Johan Månsson (NA) FI: Andreas Linden (2021, 2022?) DK: Henning Heldbjerg (2021) <i>MU2</i> NL: Kees Koffijberg (2021?) DE: Babak Miller (2021?) BE: Koen Devos (2021?) FR: (few) (2021?)	Productivity	Under development

Estimating the number of greylag geese in Norway

Impossible to count at all sites...

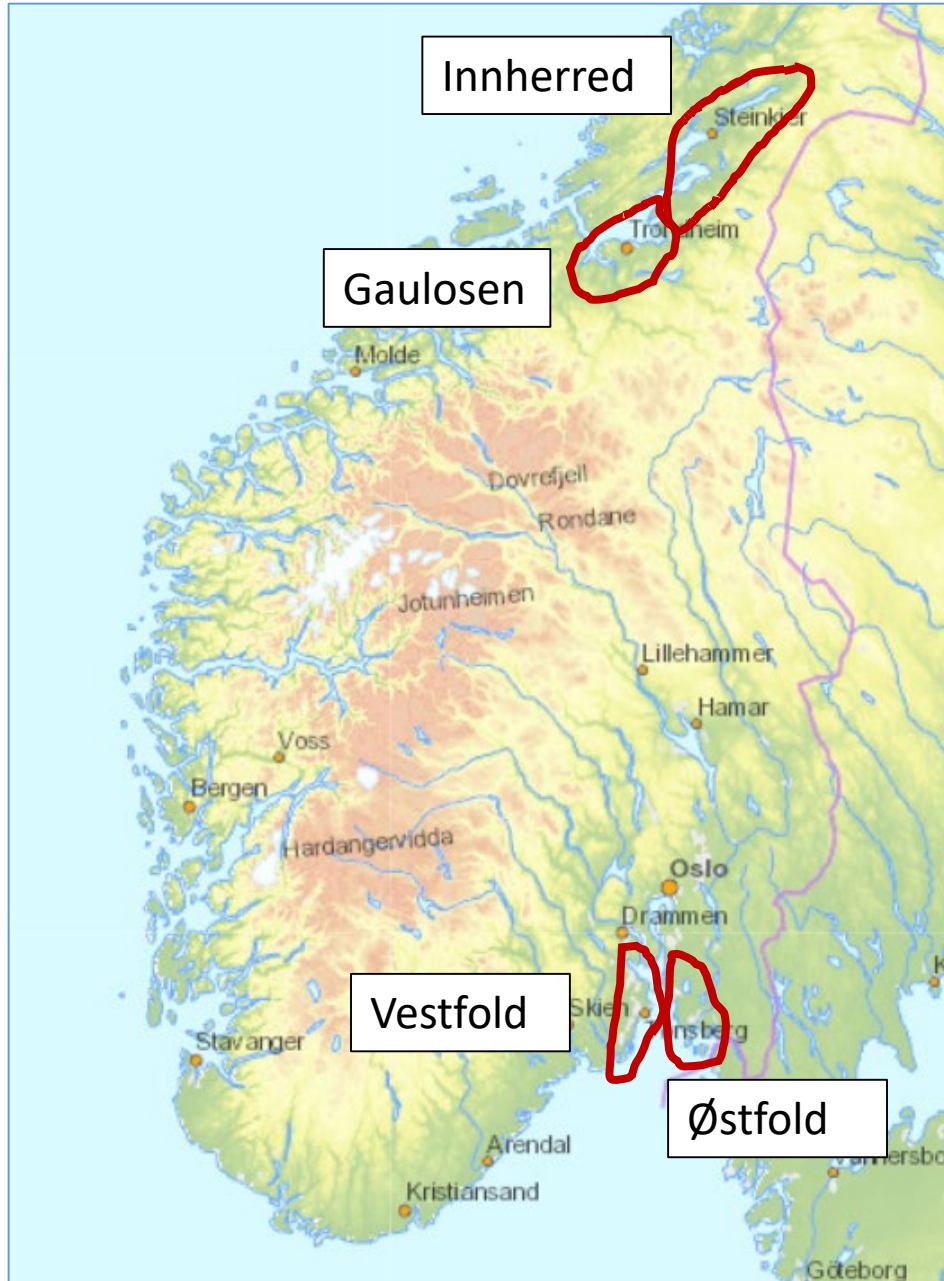
Extrapolation from known areas and figures;
will over-estimate the number

➤ Need more zero counts...

Stratification of counting sites based on percentage of farmland
(within a 500 m radius circle)

0-5%
5-20%
20-40%
40-60%
60-80%
80-100%







Work in progress...

Field data collected and sorted – now remains some computer work!

Hopefully the same method can be used for the other Scandinavian countries as well