



Svenska Golfförbundet

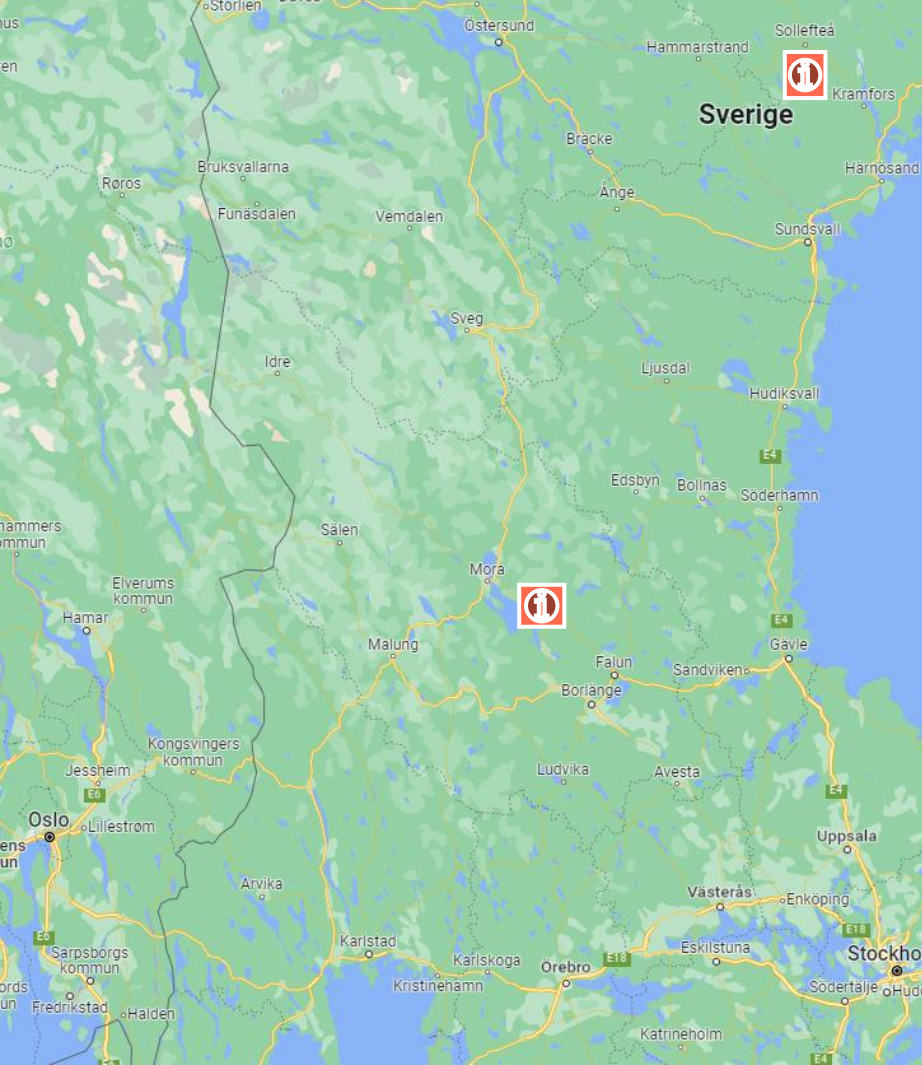
WP 6: Variety selection, seed priming and testing of sowing machines for faster recovery of winter-killed greens

Summary and results 2021-2023

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Gardermoen 3 november 2023





Testsite:
2021: Sollefteå GC.
2022: Rättviks GK and Sollefteå GC
2023: Sollefteå GC



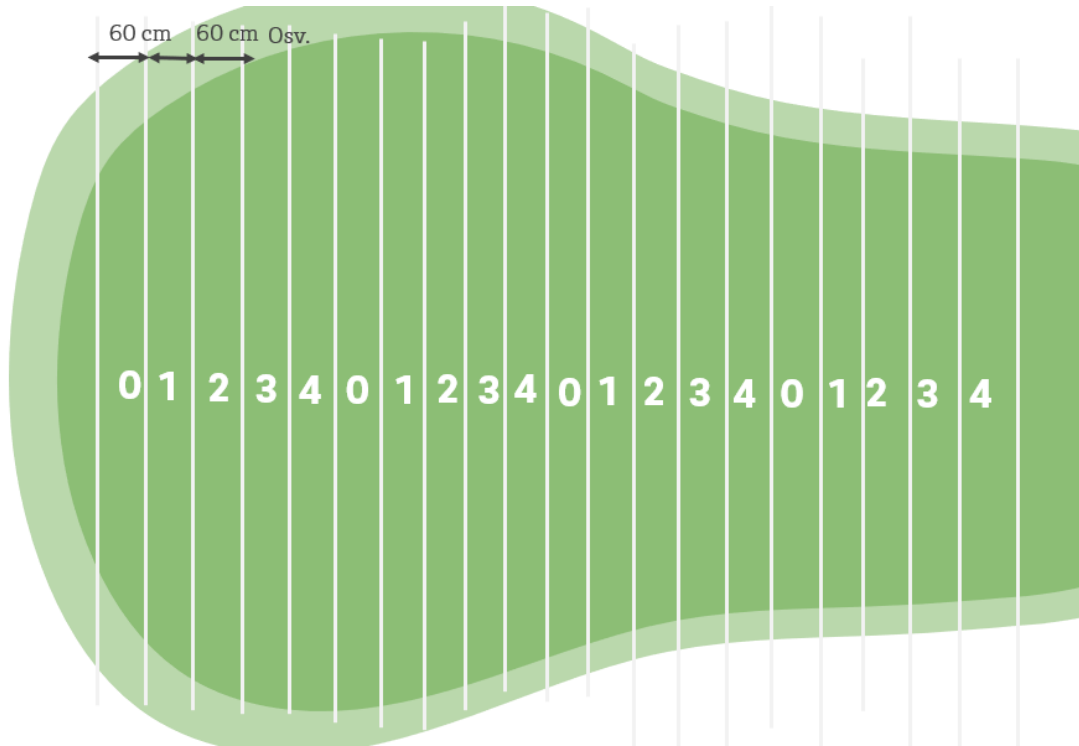
Object and goal

- See the difference in the emergence (germination) of new grass plants on 4 different CB varieties (Independence, Pure Select and Luminary) (**same seedbag every year**)
- “Evaluate” the difference when “re-establishing” a naturally dead green.
- Can seed priming (GA3) speed up the germination rate?



Description of the project

Map of the green. Same green and plot every year! 4 repetitions.



Amount of seed: 0,3 kg/100m² x 2 directions.

			Not.
Plot 0	Control, No seed		
Plot 1	Pure S		"Fast"
Plot 2	Luminary		"Medium"
Plot 3	Independence without priming		"Late"
Plot 4	Independence with Priming		"Late"

Before the project started

- Verticutting in two directions to remove dead grass.
- Solid tining with Procore down to 10 cm.
- The seed rate was 0,3 kg/100m² in two directions (back and forth). totalt 0,6 kg seed.
- Seed priming was a big process that began 48 hour before seeding (gibberlic acid, GA3).



Priming of bentgrass seeds



07 MAJ 20:16

Jerker

Fredagsnöje 🍌🍌



Course manager Jerker de Wall mix this under project



Seeding and evaluation dates

- 2021: 7 May (24 May & 2 June)
- 2022: 27 april (21 May & 1 July)
- 2023: 9 May (10 Juni & 27 June)

- Two readings per year/green

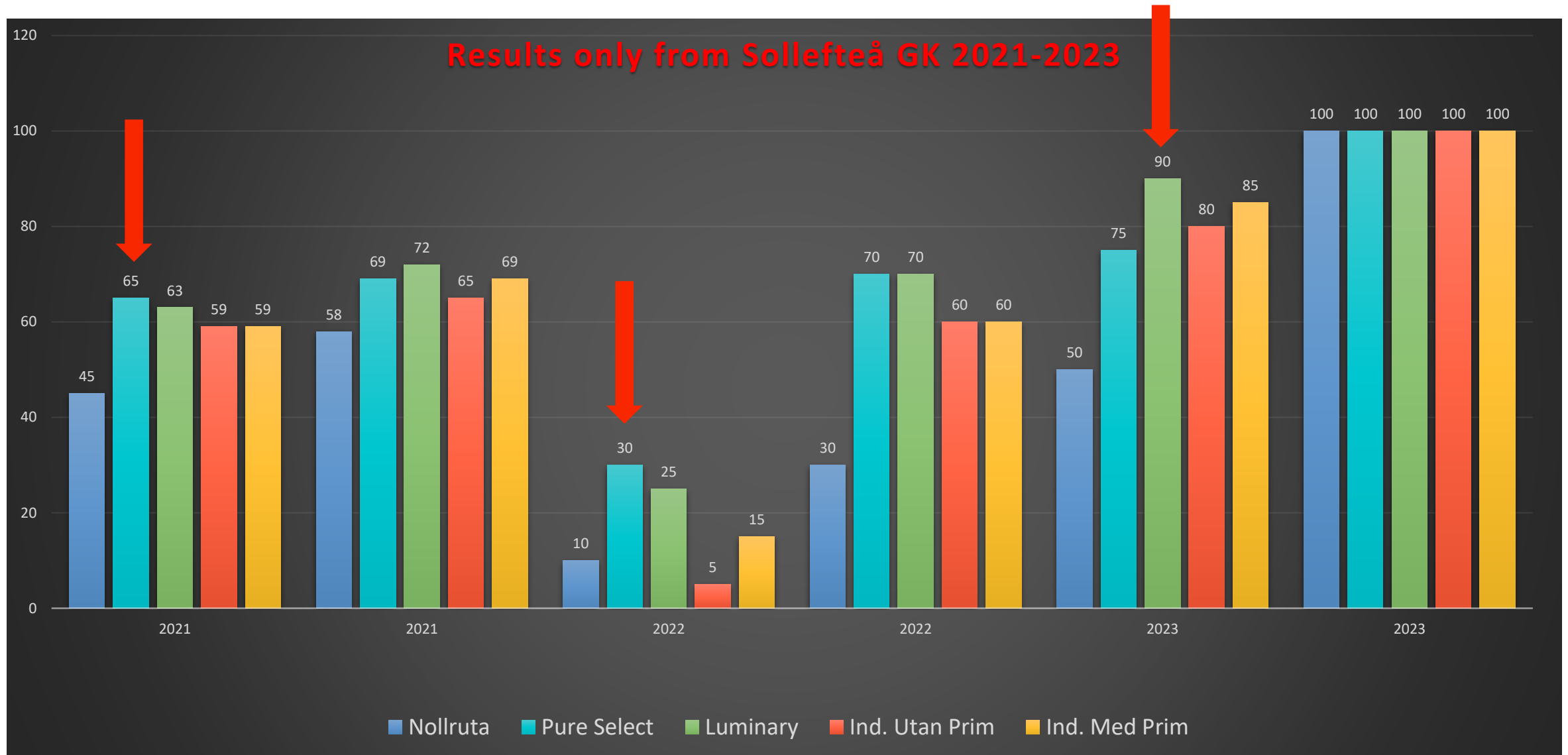


Spring weather conditions over the years

- The spring temperature affects how quickly the seed will germinate.....
- Difficult to compare the years.
- 2021: Warm spring
- 2022: Very dry and cold spring
- 2023: Warm spring

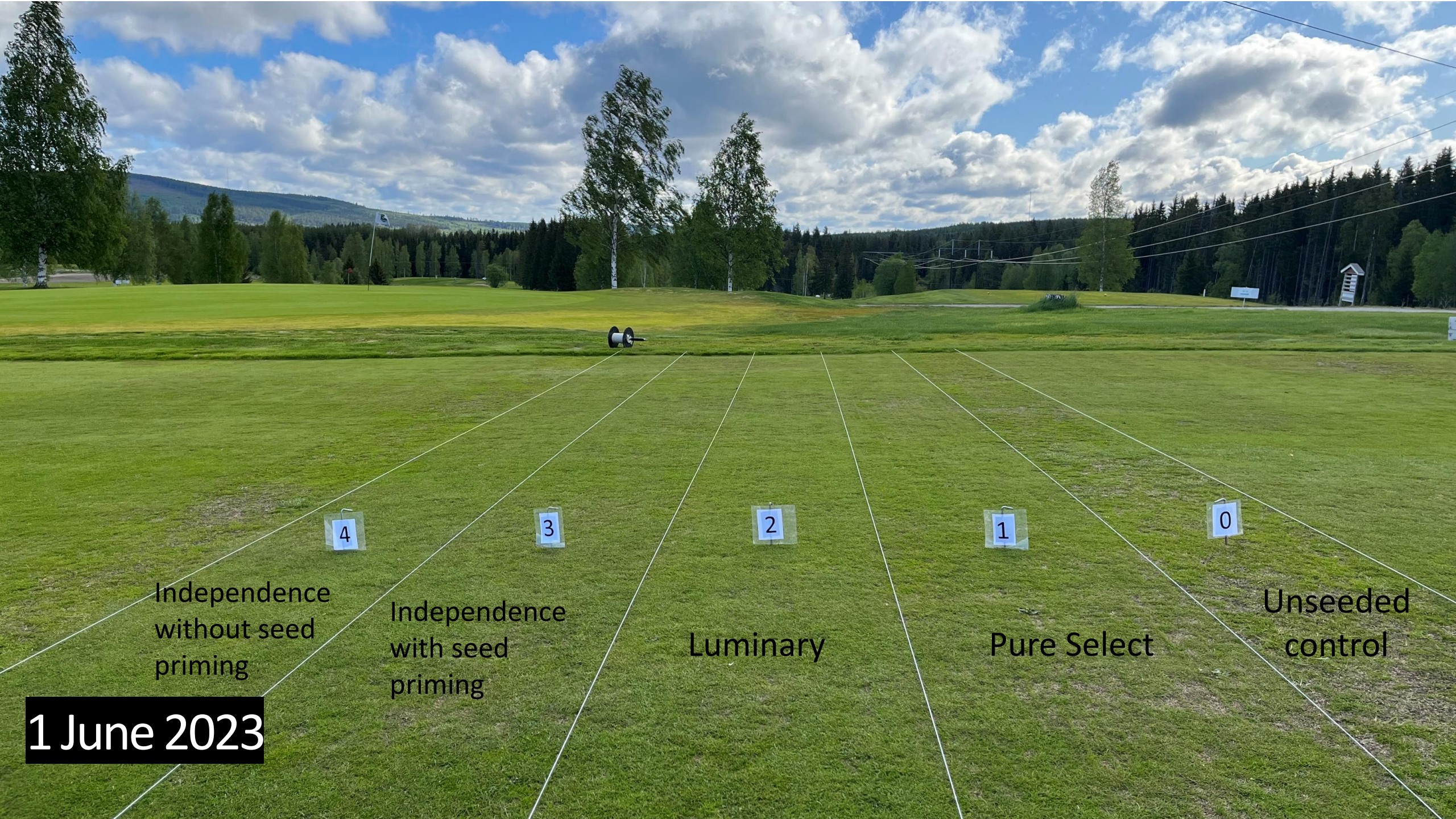


Grass coverage after seeding (%)





12 May 2023



4

Independence
without seed
priming

3

Independence
with seed
priming

2

Luminary

1

Pure Select

0

Unseeded
control

1 June 2023



12 June 2023

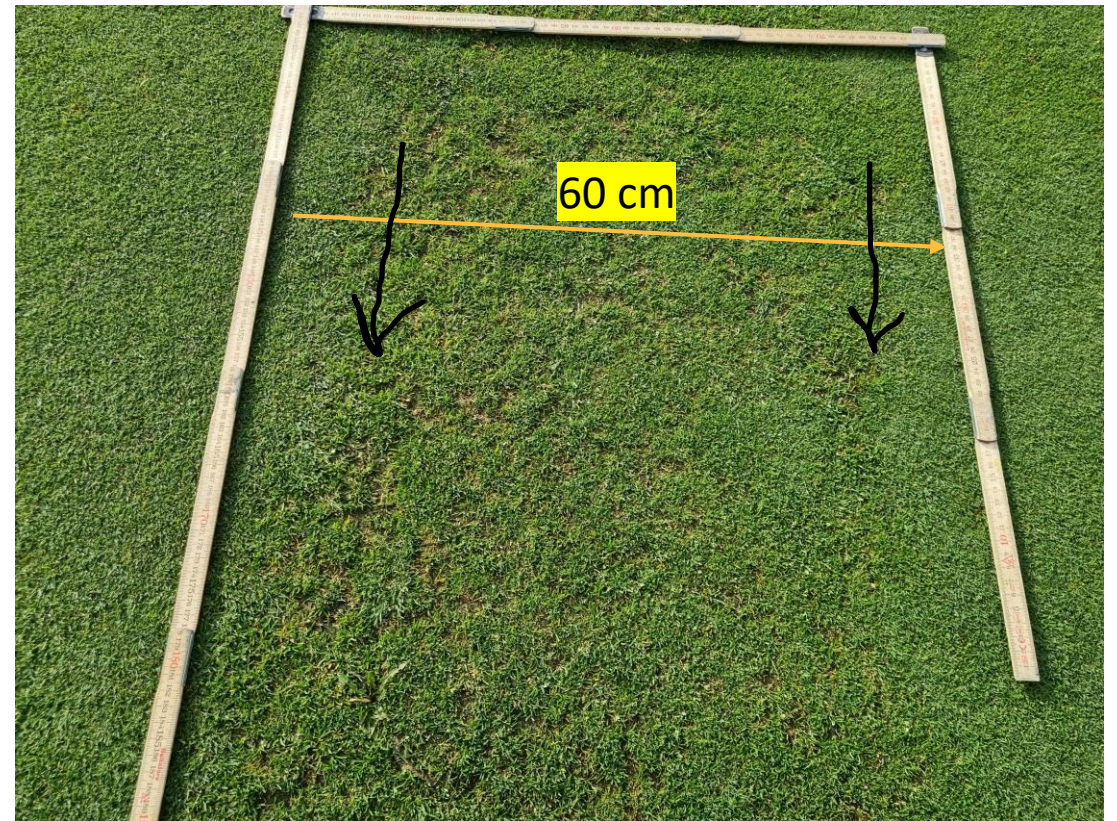
Summary 2021-2023

- To summarize, there was generally quite good establishment on all bentgrass varieties. But.....
- Pure Select **was the fastest** variety.....(about 10-14 days)
- Luminary **was close** but not as fast as Pure Select (about 16 days)
- Independence without priming was slow (about 22 days)
- Independence with priming **was faster** (about 19 days)
- The control plot was not good in any year



Some observations from the project

- The effect of seed priming with GA 3 (gibberlic acid) turned out to be small with and barely measurable.
- Both Luminary and Independence were better than Pure Select to spread out laterally.
- Something that was observed in Sollefteå during the autumn was how large percentage creeping bent there can be after two growing seasons, the green now has now about 75% bentgrass



Picture from 21 sep 2023

A wide, flat, green lawn or golf course area under bright daylight. The grass is a vibrant green and appears well-maintained. The horizon is slightly curved, suggesting a large, open field. In the bottom foreground, there is a black rectangular box containing white text.

Long term effect after 3 years? 21 sep 2023

Take home message!

- It is important to “reseed” golfgreens after winter injuries with new seeds!
- Make sure the grass seed have good soil contact.
- Use a good seed machine (I prefer “slitting” machine)





sw Horto

JORDELIT





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