Virtual stakeholder meeting for expanding potato farming northward

April 29th 2021

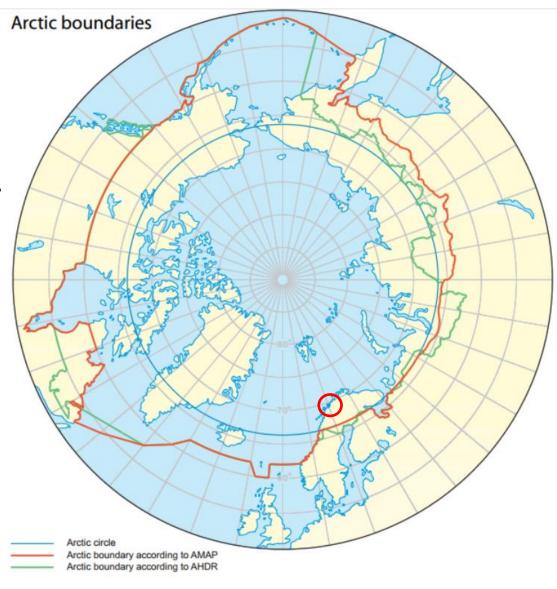
Kristin Sørensen, agricultural adviser, Norwegian Agricultural Extension Service / Norsk Landbruksrådgivning Nord Norge

Photo by: Kristin Sørensen, unless named



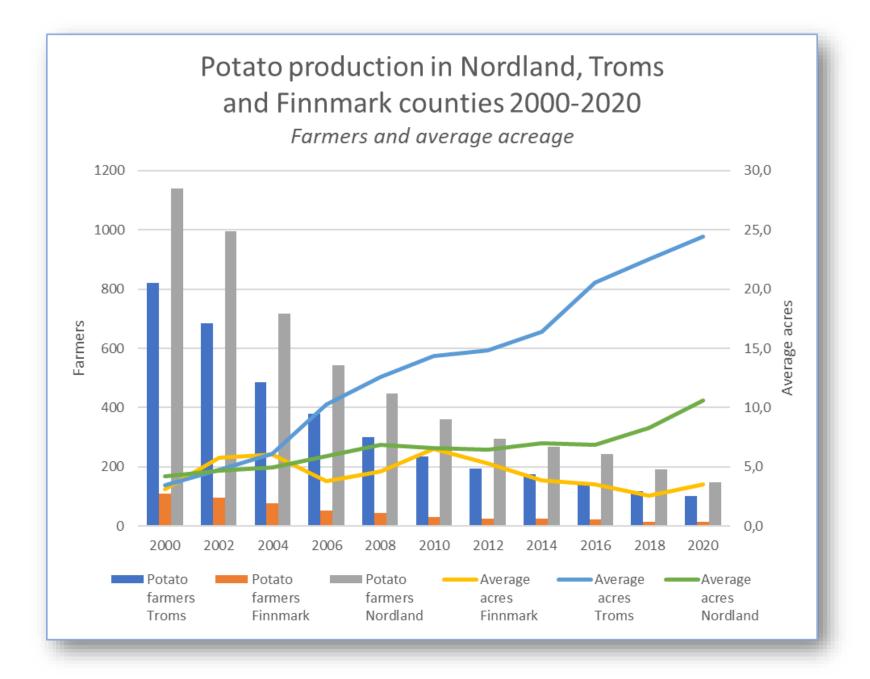


Potato production in the Arctic Tromsø: latitude 69,65°N



Source: Arctic Monitoring and Assessment Programme (AMAP)







Yield and quality in northern Norway

YIELD

- Round potatoes for pre packing, first class around 2000 kg/acres
- Round potatoes for pealing, around 2500 kg/acres
- Special potatoes (Mandel and Gulløye), first class 1500 kg/acres
- The main potato packing company in north; Tromspotet handeling about 4500 tonn a year

QUALITY

• Well ...

	Ant dyrkere	Ant daa i snitt pr dyrker	Ant daa totalt
POTET			
Nordland	147	10,6	1 554
Finnmark	13	3 <i>,</i> 5	46
Troms	102	24,4	2 490
Norge	1505	76,1	114 463













Tromspotet AS og Art Nor AS

Silsand på Senja

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O P STATE

A A A

Climate change

Municipality	Growing season in days	Expected increase in days
Kommune	Vekstsesong 1961 – 1990	Økning 2021 – 2050
Tana	90 - 120	11 - 25
Porsanger	90 - 150	15 - 30
Tromsø	120 - 150	11 - 25
Bardu	120-150	11 - 25
Hattfjelldal	120 - 150	11 - 25
Vestvågøy	150 - 180	6 - 15

Source: Eiving Uleberg, NIBIO POP nr 16, juni 2017

Challenges

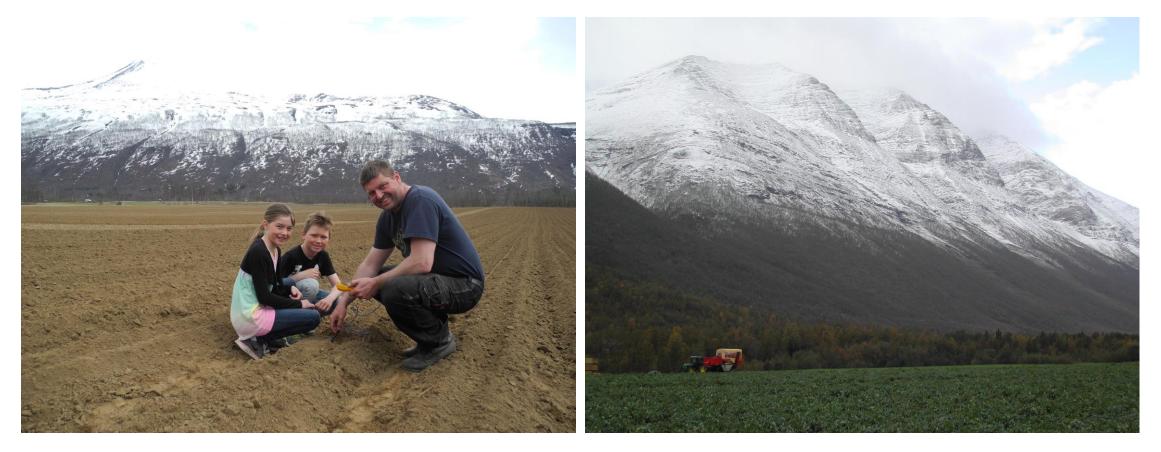
- Less snow
- More frost in the ground
- More rain in spring and autumn
- Longer periods with draft
- The same lack of light in autumn

Benefits

• Higher temperature in the growing season



Spring and autumn in north of Norway





Climate improvement



June 2020. Non woven fabric Foto: Ulrike Naumann

Climate improvement









Potatoes under cover



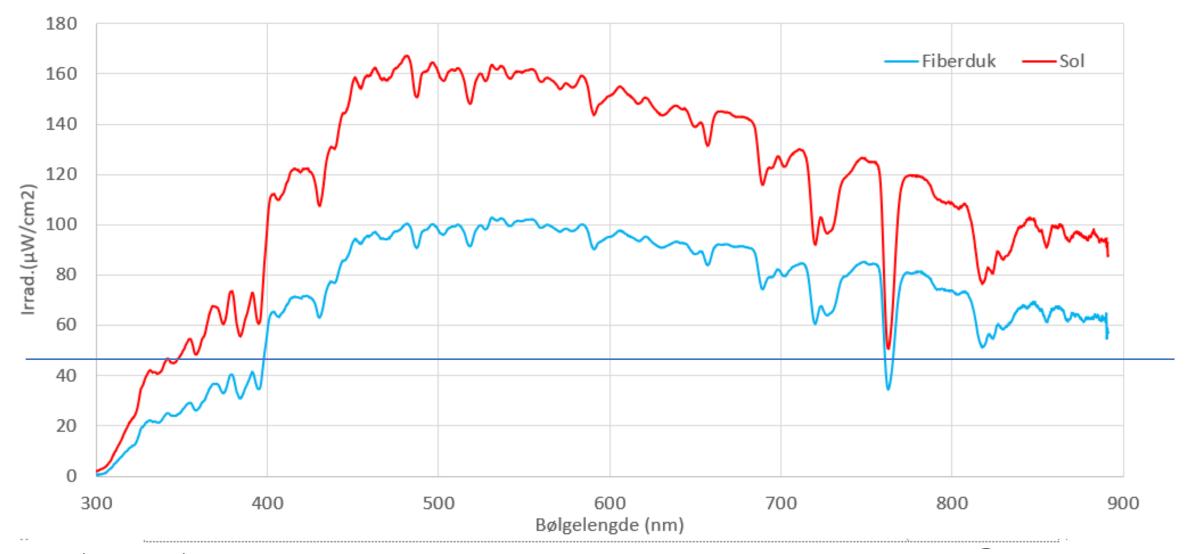
If the non woven fabric is uncovered to late, the foliage collapse in some varieties, and the stem continue to grow in an angle





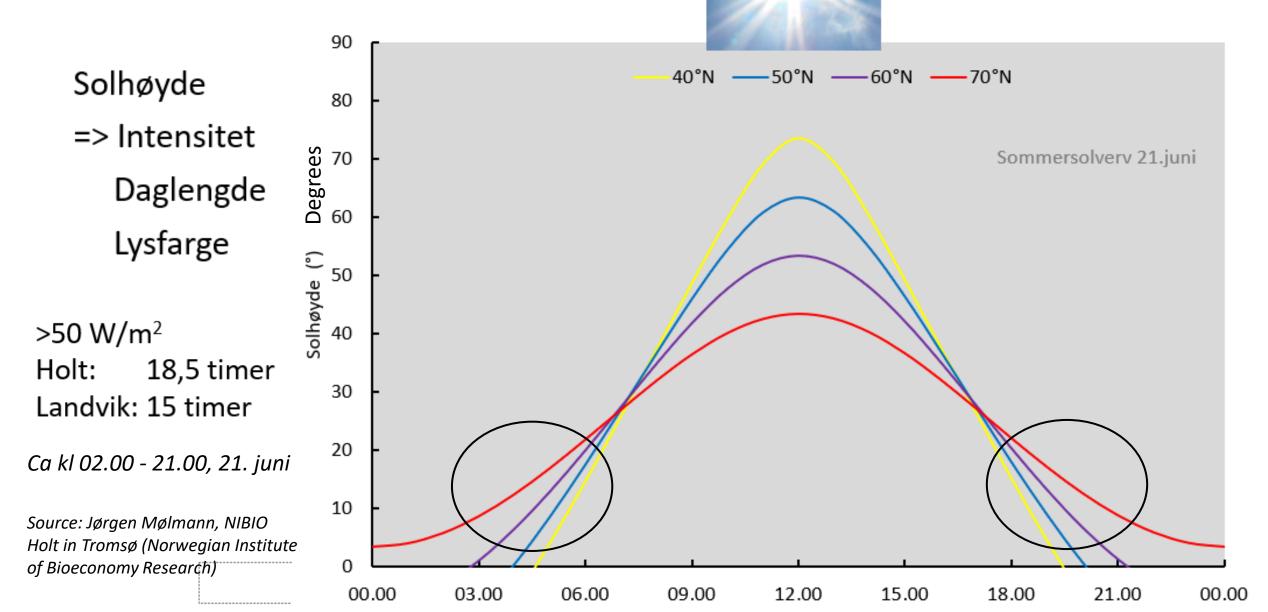


Non woven fabric filtrating 1/3 of the sunlight



Sourse: NIBIO Holt, Jørgen Mølmann

Sun hight and latitude



Climate improvement







New varieties

Back in 2006, we started looking for new potato varieties suitable for northern growing seasons ...







Financial collaborators









Selection and multiplying number varieties









Found any?

Long term work Not easy peasy to become a potato hit!

Satisfactory

- taste
- dry matter content
- yield
- skin set
- dormancy
- resistance
- properties for growing
- and it needs to be good looking



Thank you for listening!

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Gulloye