



Norwegian Centre for Organic Agriculture

MERMOLD project

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19 August 2020



STANDARD
BIO

Prosjekt: MERMOLD

Regionalt forskingsfond Midt-Norge

Start: 02 July 2019

End: 01 July 2022



NORGES BONDELAG



ecopro
ecologic bioproducts



Opplegg

Tilført

Fangvekst

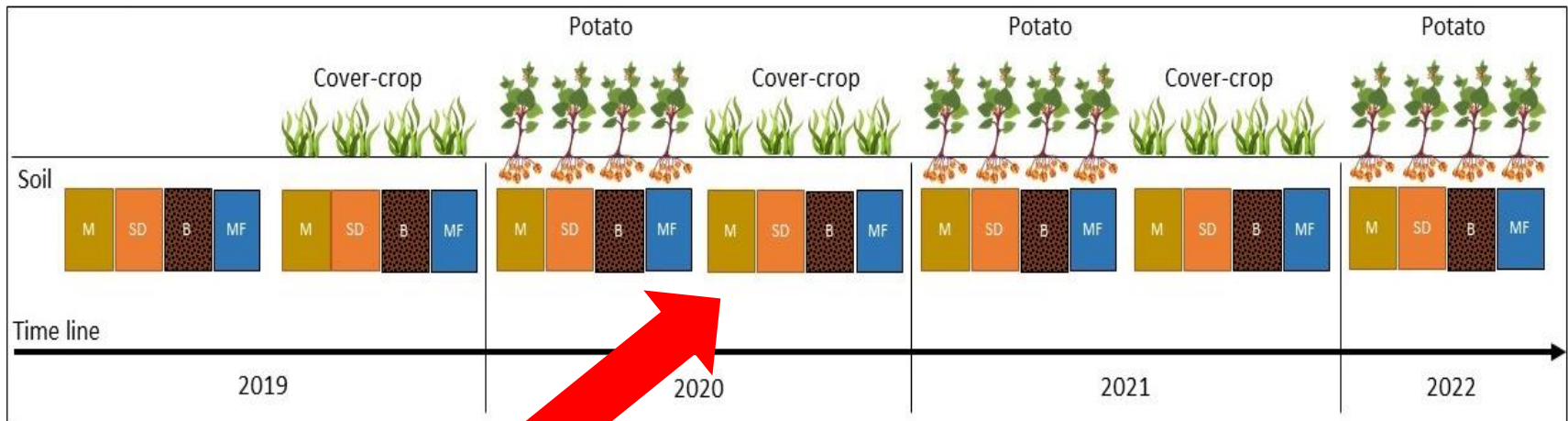
Analyse

-  Møkk hest (M)
-  Fast biorest (SD)
-  Biokull + flyt. biorest (B)
-  Mineral gjødsel (MF)



Rug

- Karbon i jord
- Potetavling
- Fangvekst og jordanalyser





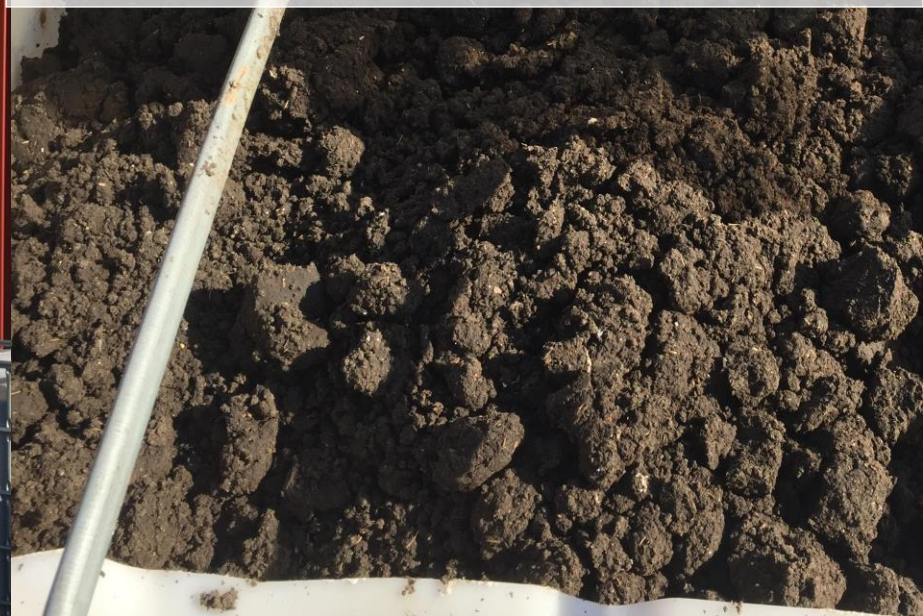
Fast bioest

Total tilsette: 2857 kg

Karbon: 32 % dm

Fosfor: 22 000 mg/kg dm

Nitrogen: 4 % dm





Biokull fra Furu



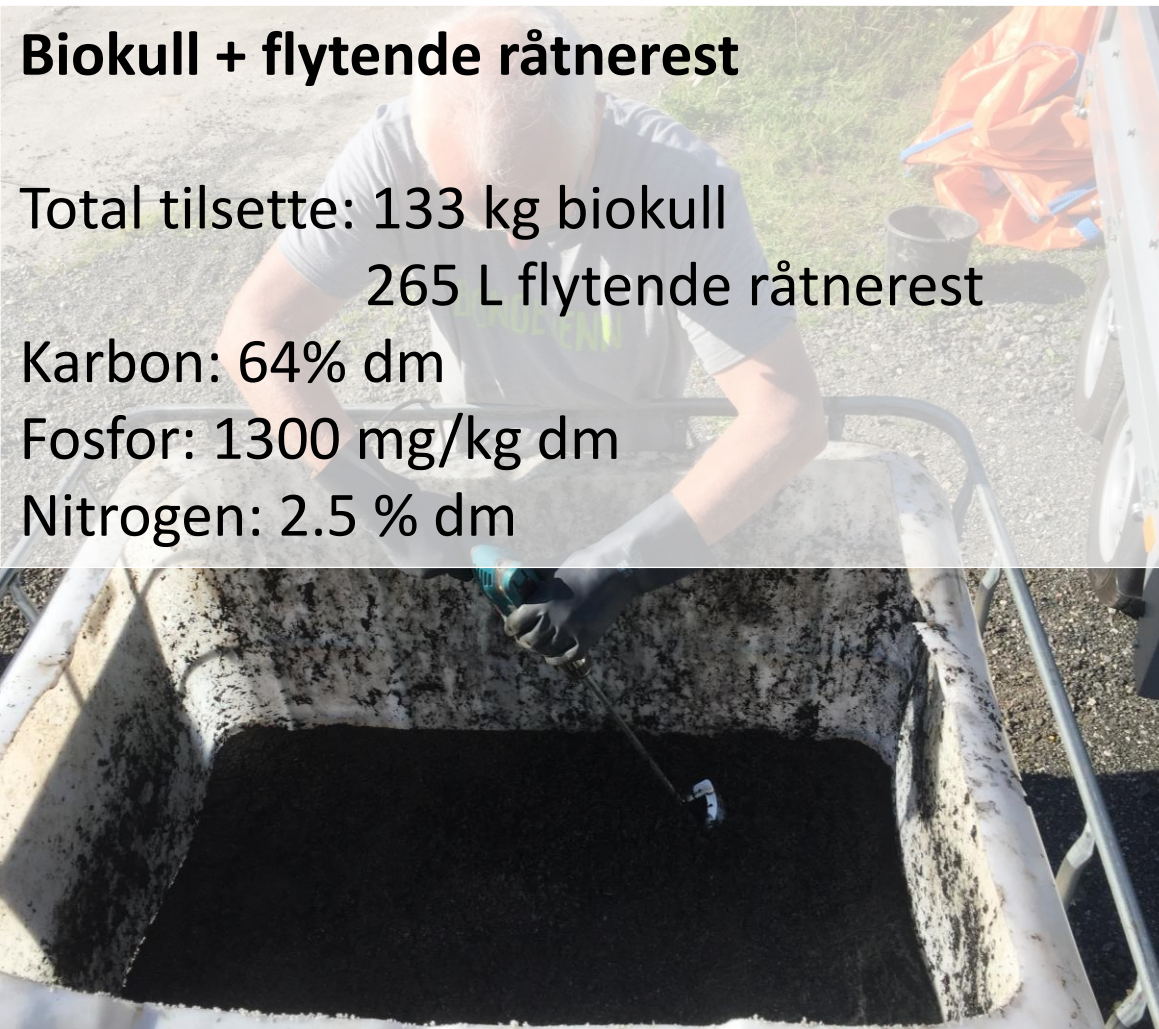
Biokull + flytende råtnerest

Total tilsette: 133 kg biokull
265 L flytende råtnerest

Karbon: 64% dm

Fosfor: 1300 mg/kg dm

Nitrogen: 2.5 % dm





Møkk hesten

Total tilsette: 2111 kg

Karbon: 32 % dm

Fosfor: 4 500 mg/kg dm

Nitrogen: 1.4 % dm





Jord i 2019

Behandlinger	P	K	Mg	Ca	KHNO ₃	Na
	mg 100 g dry soil ⁻¹					
Mineral gjødsel	17.7	8.7	5.3	34.7	140.0	2.7
Biokull+FR	17.2	9.8	5.7	37.0	138.3	4.8
Møkk hest	18.2	12.2	5.8	36.3	150.0	5.3
Fast biorest	18.0	10.7	5.8	40.2	135.0	3.7

Vinter rug i 2019



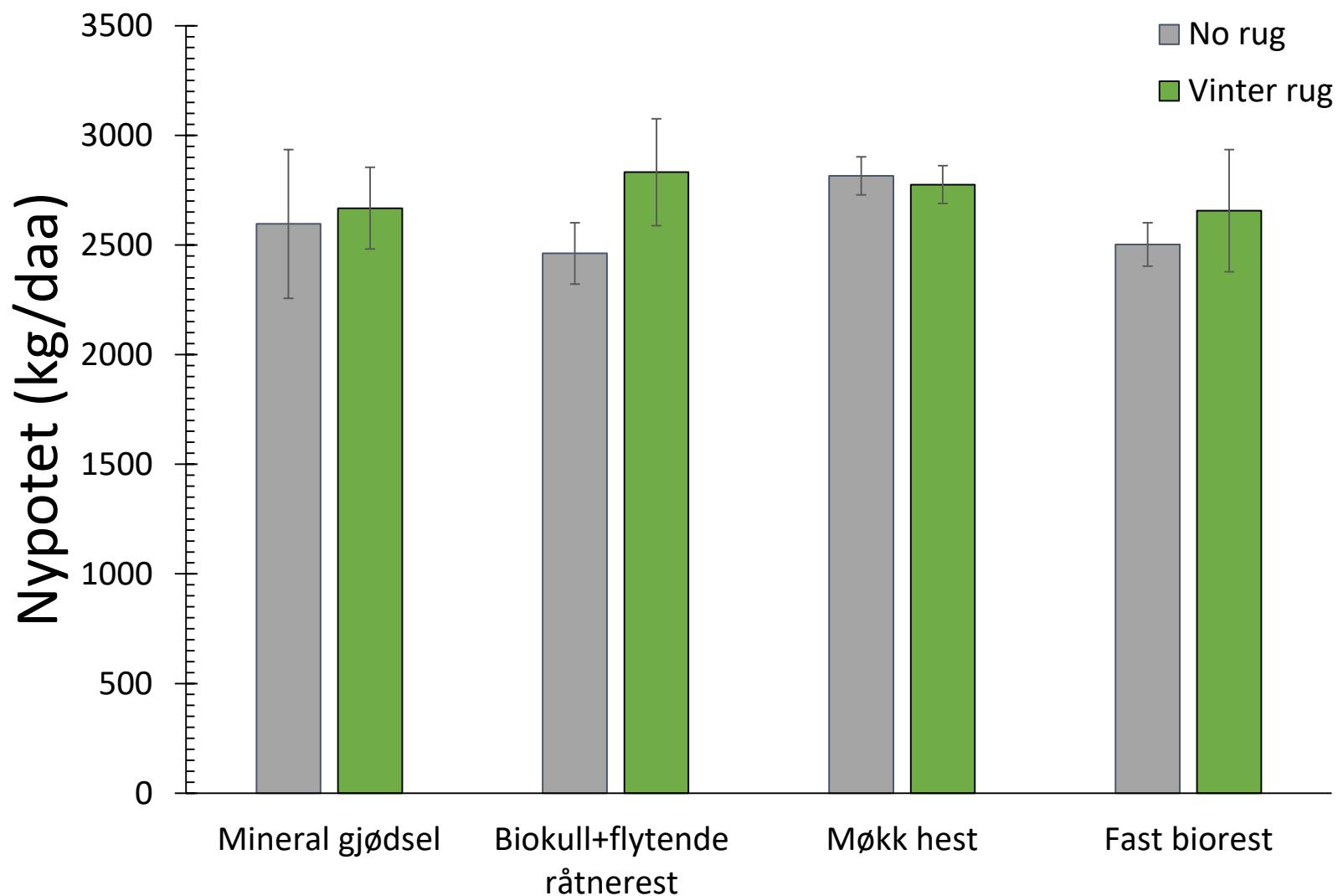
Vinter rug i 2019

Behandlinger	Yield	N	P	S	K
	g dm m ⁻²	g kg dm ⁻¹			
Mineral gjødsel	113	177	38	20	197
Biokull+FR	119	215	42	17	267
Møkk hest	93	132	29	10	158
Fast biorest	124	269	40	21	261



Nypotet i 2020

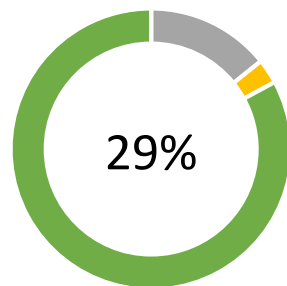
Nypotet i 2020



Kvalitet på potet

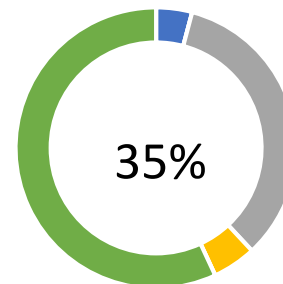


Mineral gjødsel



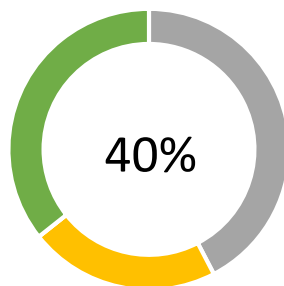
- Hulrom
- Andre indre defektar
- Vekstprekker
- Mark
- Misforma poteter
- Skalmisfarging

Møkk hest



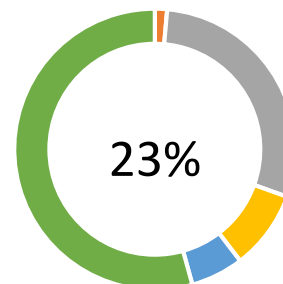
- Hulrom
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Biokull+flytende råtnest +LD



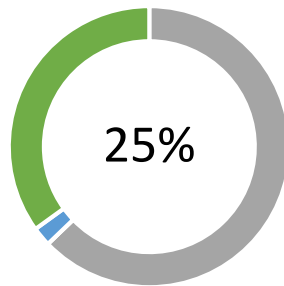
- Hulrom
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- Vekstprekker
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Fast biorest



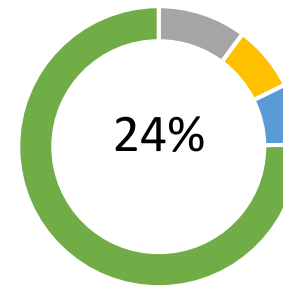
- Hulrom
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- Skalmisfarging

Mineral gjødsel + vinter rug



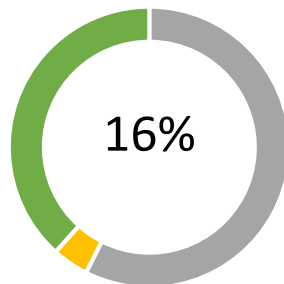
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Møkk hest + vinter rug



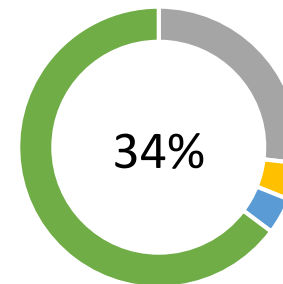
- Hulrom
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Biokull+flytende råtnerest + vinter rug



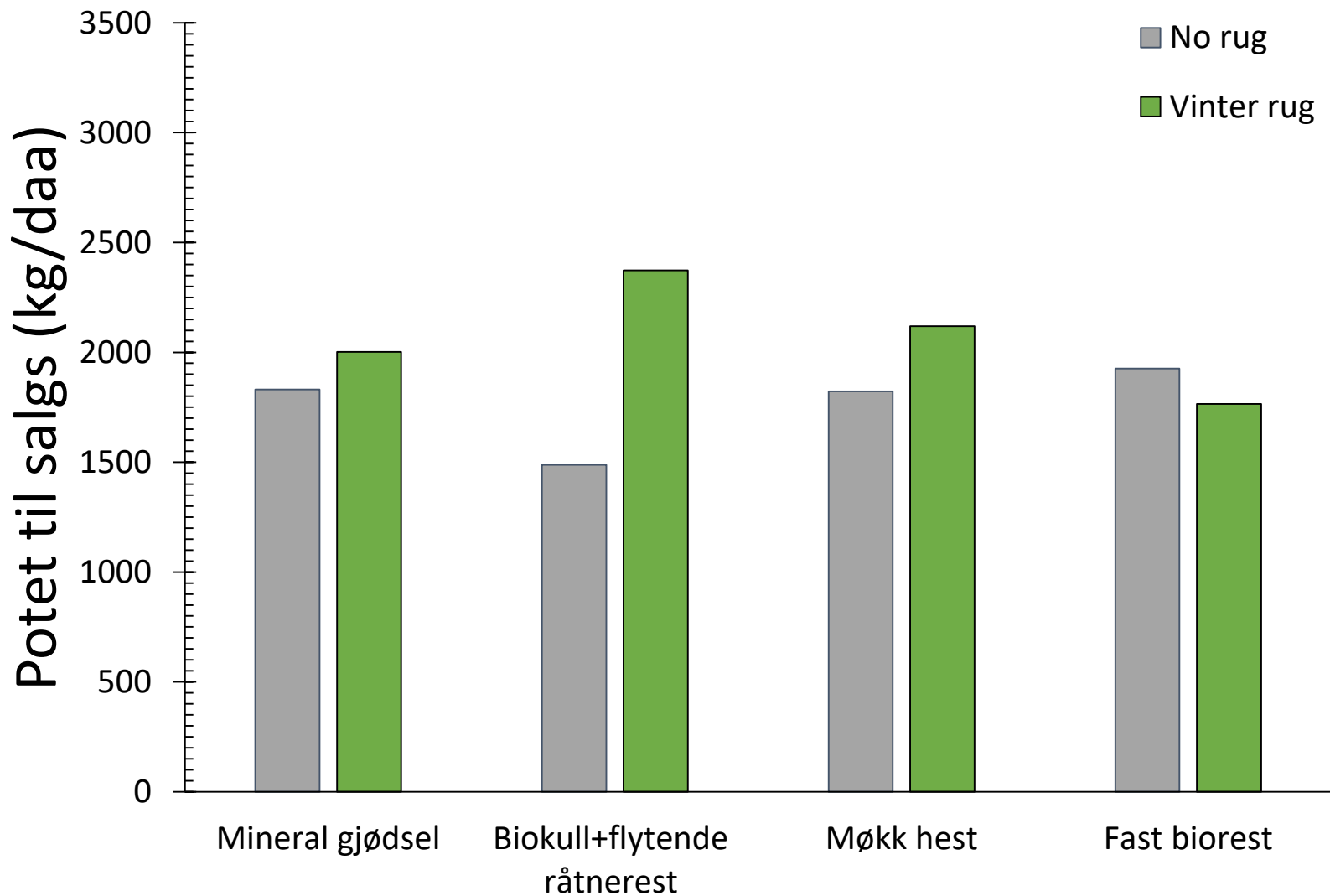
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Fast biorest + winter rye

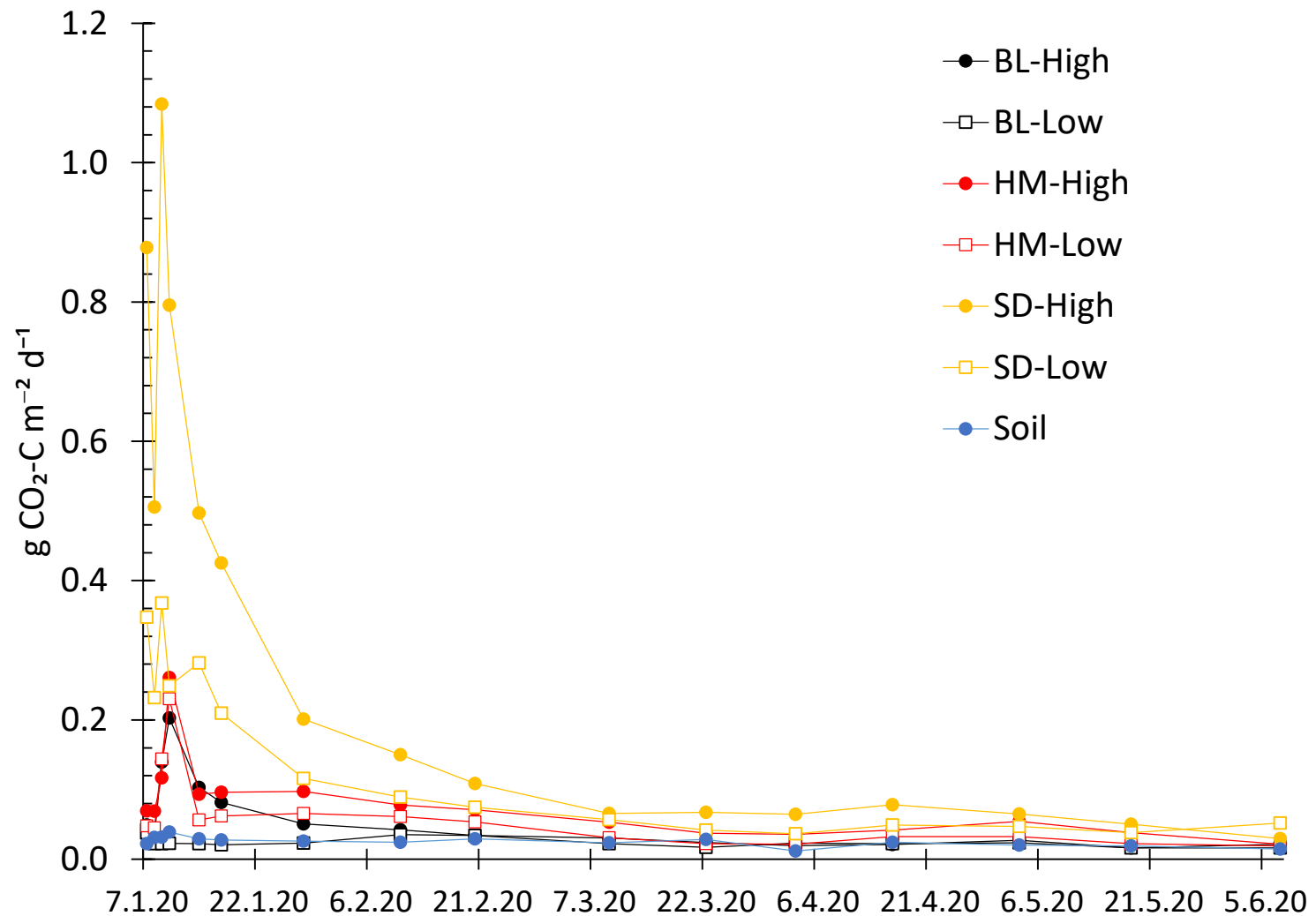


- Hulrom
- Mark
- Andre indre defektar
- Misforma poteter
- Vekstprekker
- Skalmisfarging

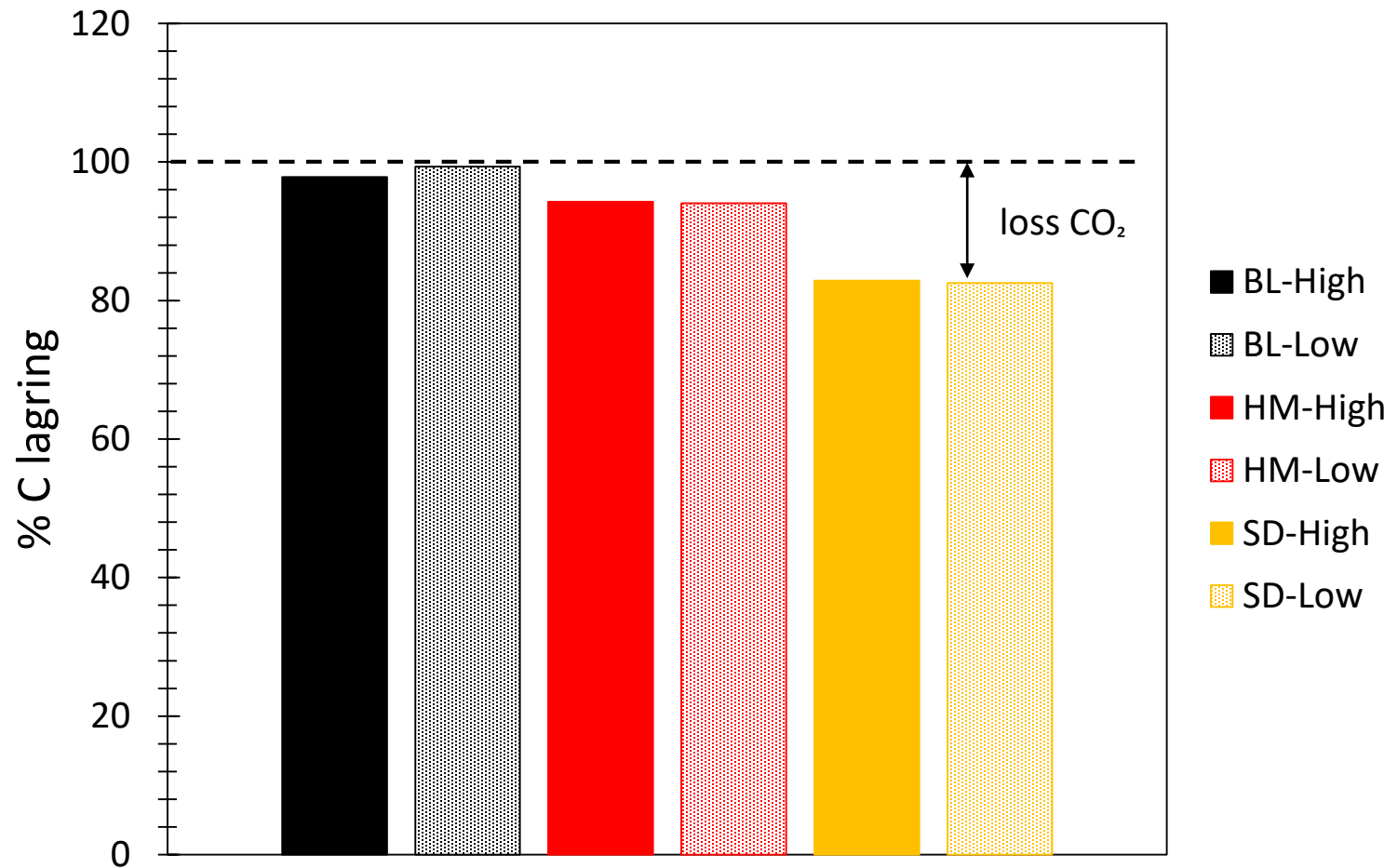
Potet til salgs



Karbonlagring – laboratoriestudie



Karbonlagring - laboratoriestudie



Ny prosjekt: CHARCOAT

Regionalt forskingsfond
Midt-Norge

Starter: 01 Mars 2020







Tusen takk

