

Verschiedene Bodenbearbeitungsstrategien für intensiven Maisanbau in Hochertragsregionen

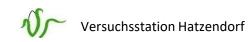




Herausforderungen

- Hoher Maisanteil in den steirischen Fruchtfolgen
- Reduzierung der wendenden Bodenbearbeitung (GLÖZ 6)
- Feuchte Bodenbedingungen bei der Ernte
- Humusdiskussion



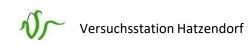




Versuchsdetails

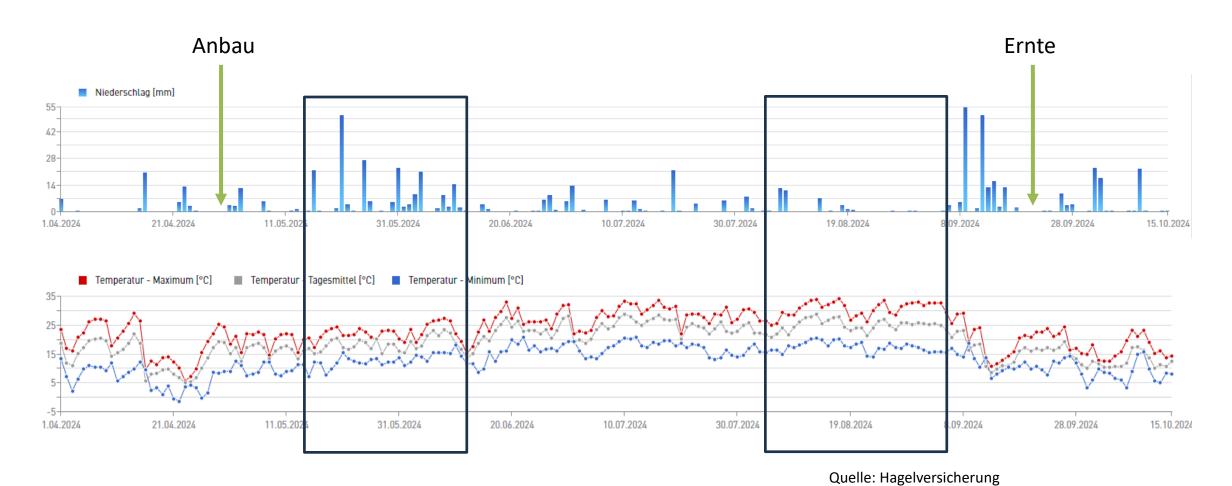
- Schwerer Boden (18% Sand, 52% Schluff und 30% Ton)
- Ein-faktorielle Blockanlage mit 4-fach Wiederholung
- Versuch seit 2019
- Varianten:
 - 1. Gerätevergleich
 - 2. Scheibeneggeneinsatz
 - 3. Bodenbearbeitungstiefe
 - 4. Strohbehandlung
 - 5. Zeitpunkt

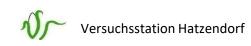






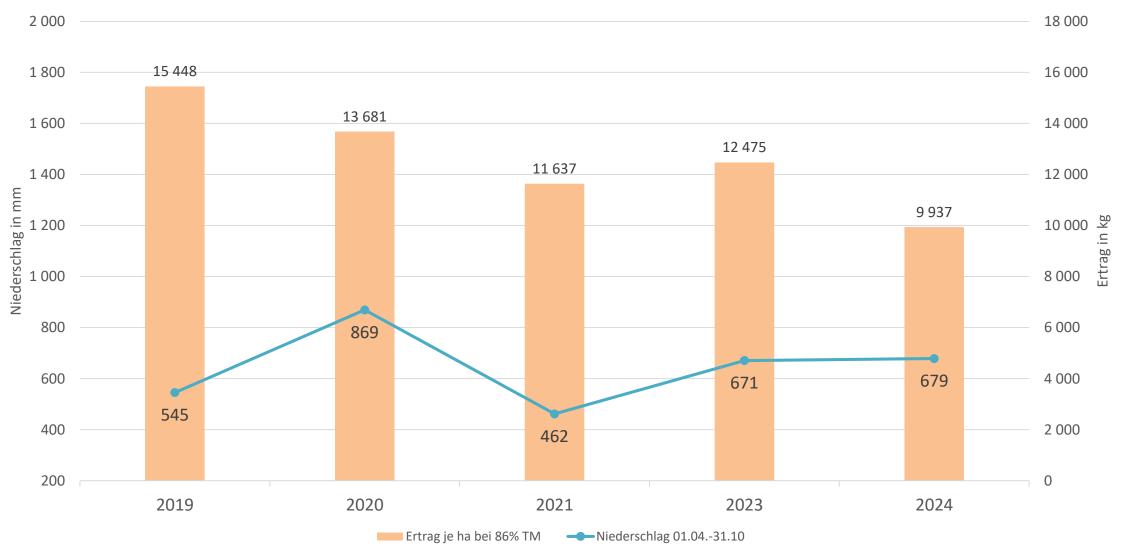
Witterungsverlauf 2024







Ertrag und Niederschlag







Geräte-Vergleich

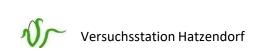








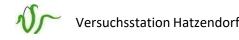






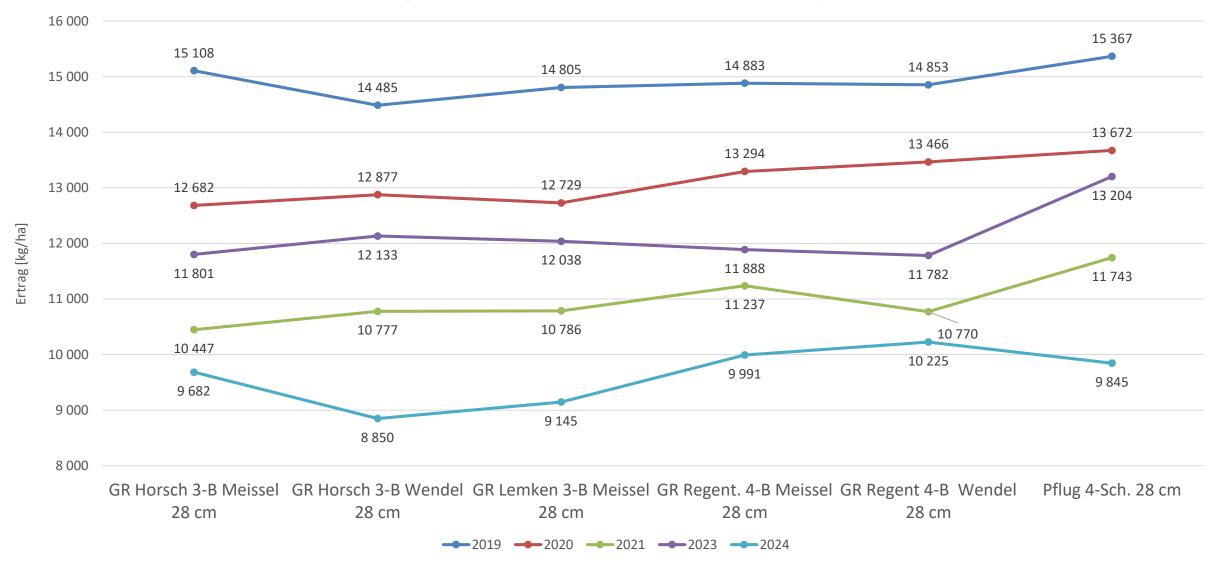
Gerätevergleich

- 1. Grubber, 3-balkig, 10 Meißelschare, 28 cm tiefe Bearb.
- 2. Grubber, 3-balkig, 10 Wendelschare, 28 cm tiefe Bearb.
- 3. Grubber, 3-balkig, 11 Meißelschare, 28 cm tiefe Bearb.
- 4. Grubber, 4-balkig, 15 Meißelschare, 28 cm tiefe Bearb.
- 5. Grubber, 4-balkig, 15 Wendelschare, 28 cm tiefe Bearb.
- 6. Pflug, 4-scharig, mit Vorschäler, 28 cm tiefe Bearb.





Erträge 2019 bis 2024 Gerätevergleich

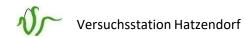






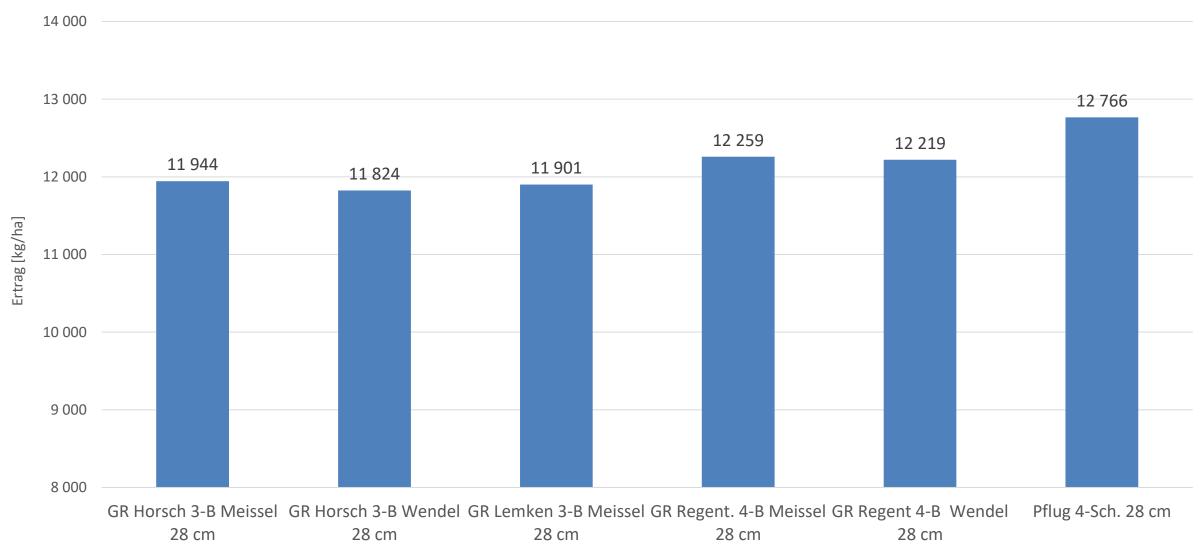
Erträge 2019 bis 2024 Gerätevergleich







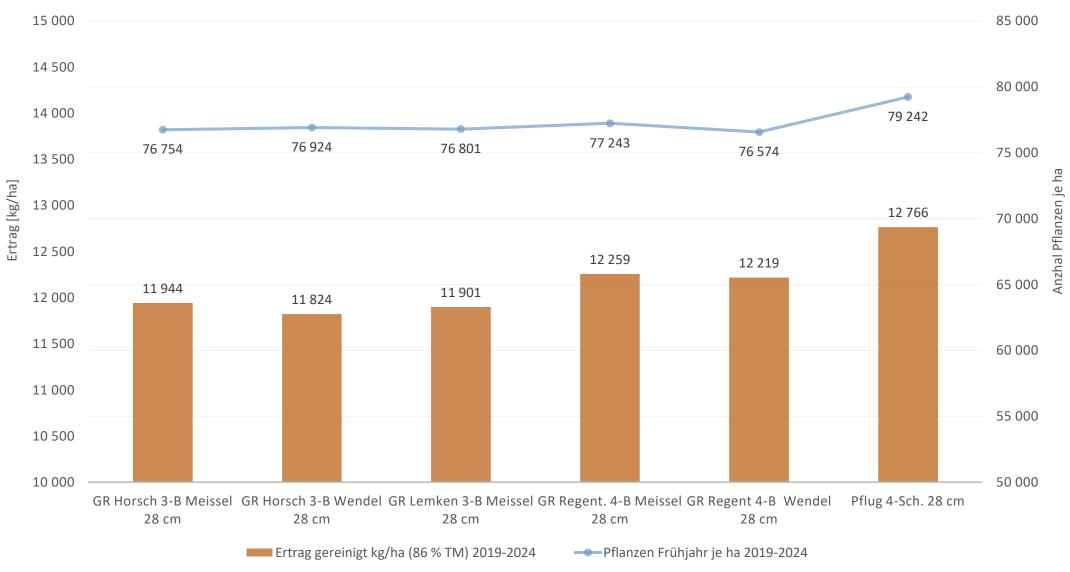
Erträge 2019 bis 2024 Gerätevergleich

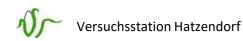






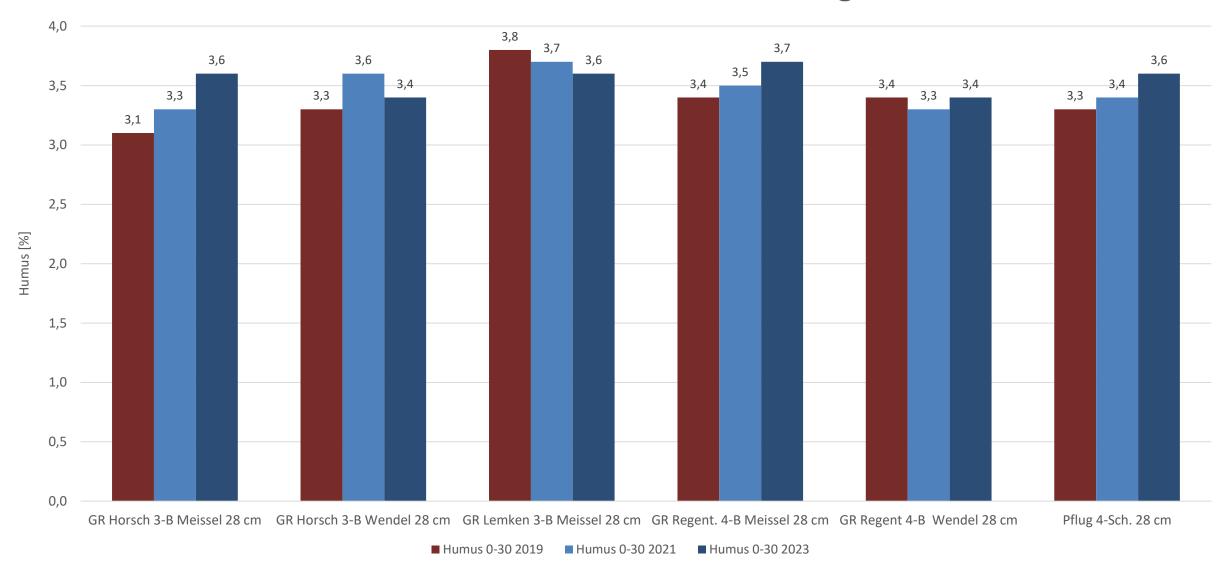
Pflanzenaufgang- Ertrag 2019-2024

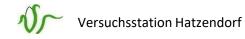






Humus 2019 bis 2024 Gerätevergleich



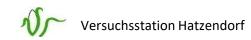




Strohbehandlung









Maisstrohbehandlung

anschließend Grubber 28 cm



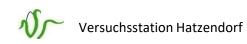
Messerwalze + Scheibenegge



nur Mähdrescher häckseln

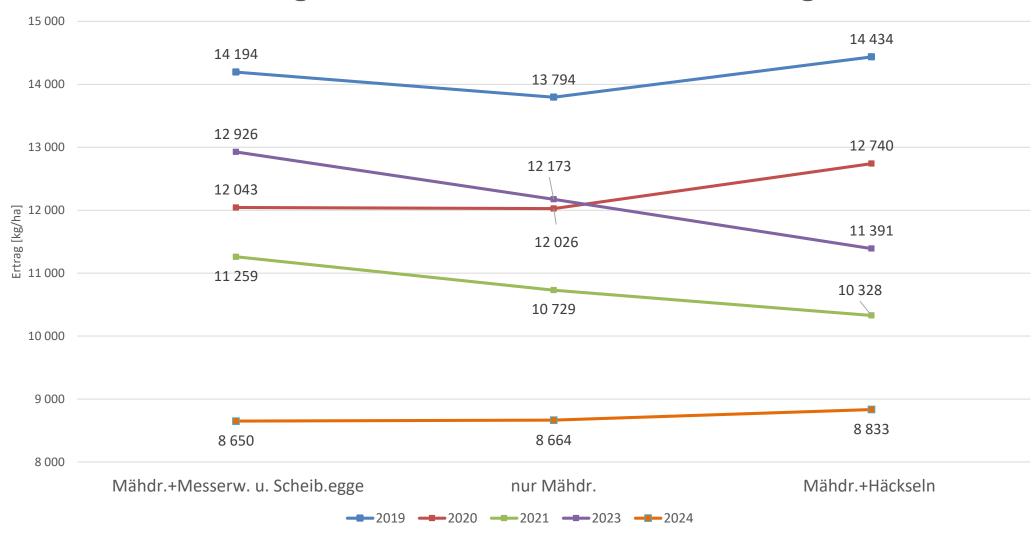


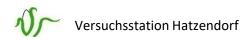
Mähdrescher + Traktor häckseln





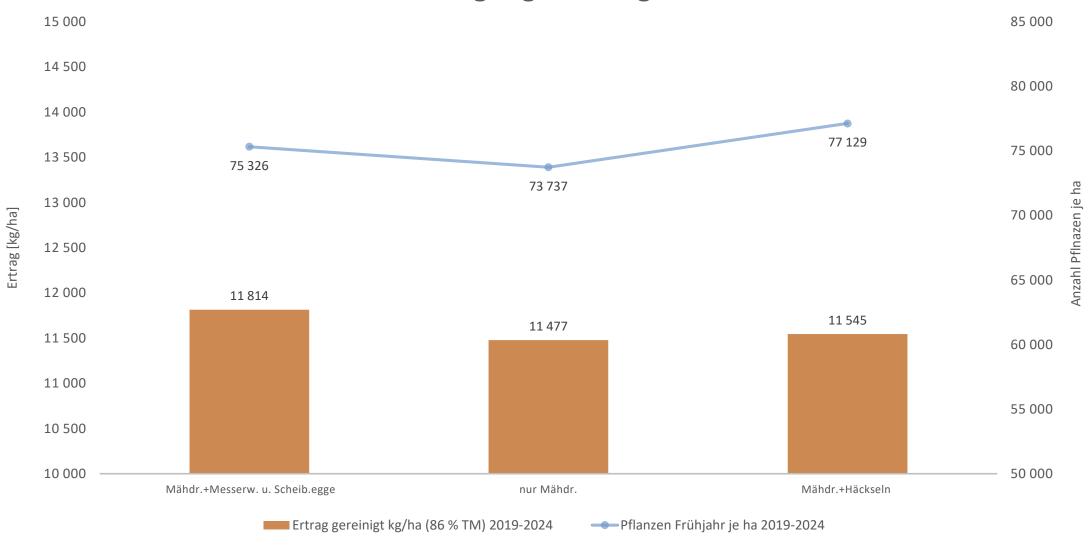
Erträge 2019 bis 2024 Strohbehandlung

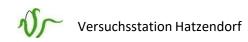




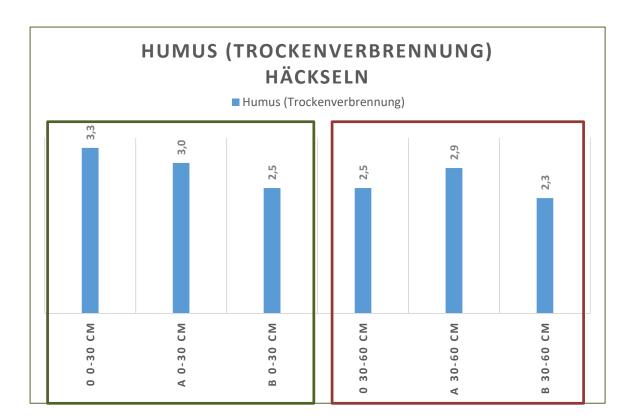


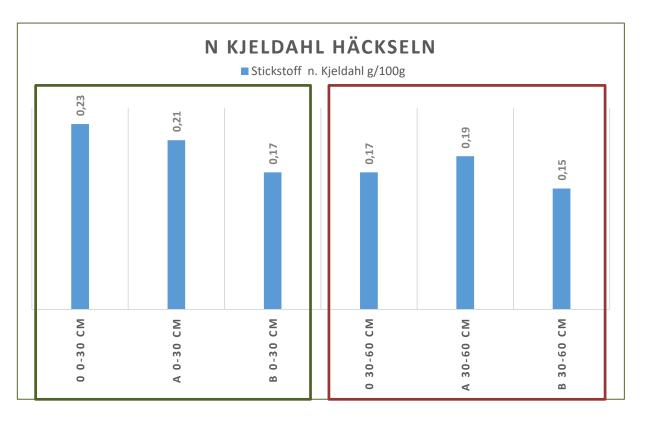
Pflanzenaufgang – Ertrag 2019-2024









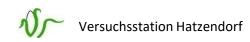


Bodenbearbeitung am 15.10.2021

Probennahme 03.08.2022 nach Winterweizen

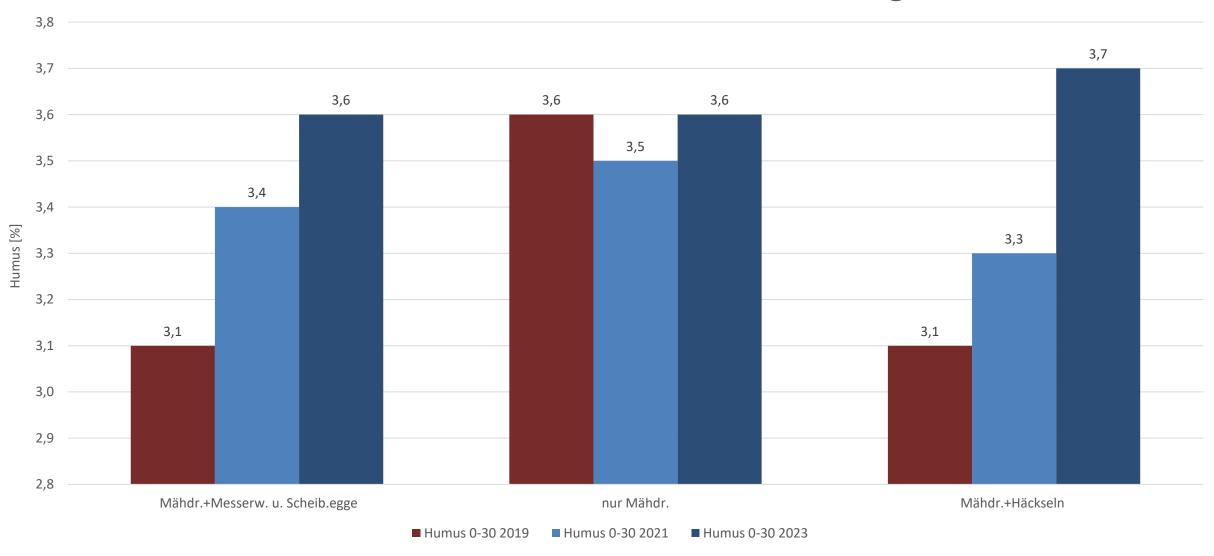
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O	nur Mähdrescher
	+Messerwalze
	+Scheibenegge S
	Grubber Herbst
A	nur Mähdrescher
	Grubber Herbst
В	Mähdrescher + Traktor
	Grubber Herbst

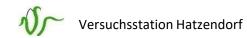
2020: 3,3% Humus





Humus 2019 bis 2024 Strohbehandlung

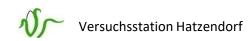






Zeitpunkt







Einsatzzeitpunkt Herbst / Frühjahr – Grubber/Pflug

angestrebte Bearbeitungstiefe = 28 cm



Grubber Herbst



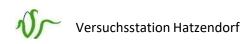
Pflug Herbst



Grubber Frühjahr

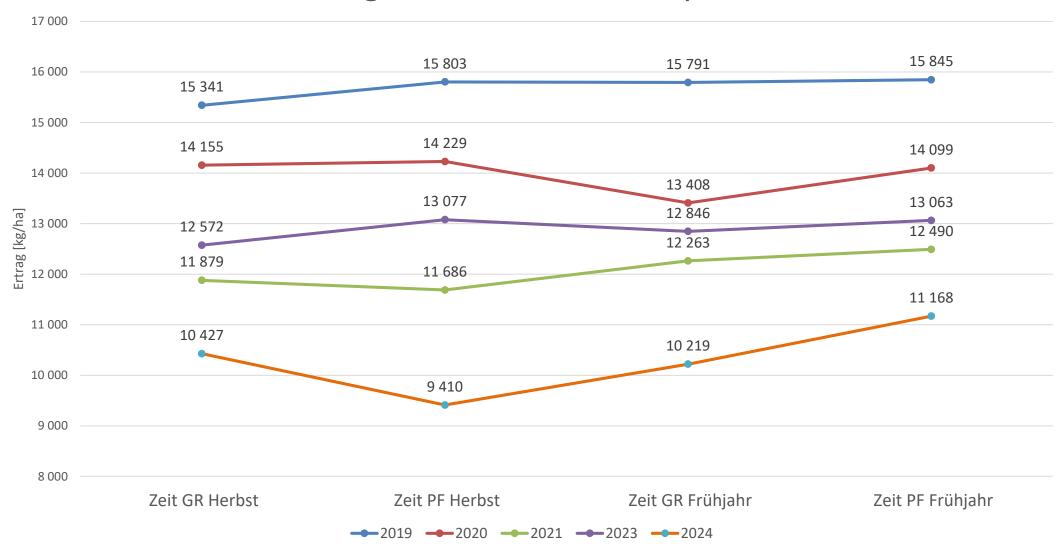


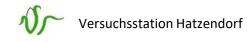
Pflug Frühjahr





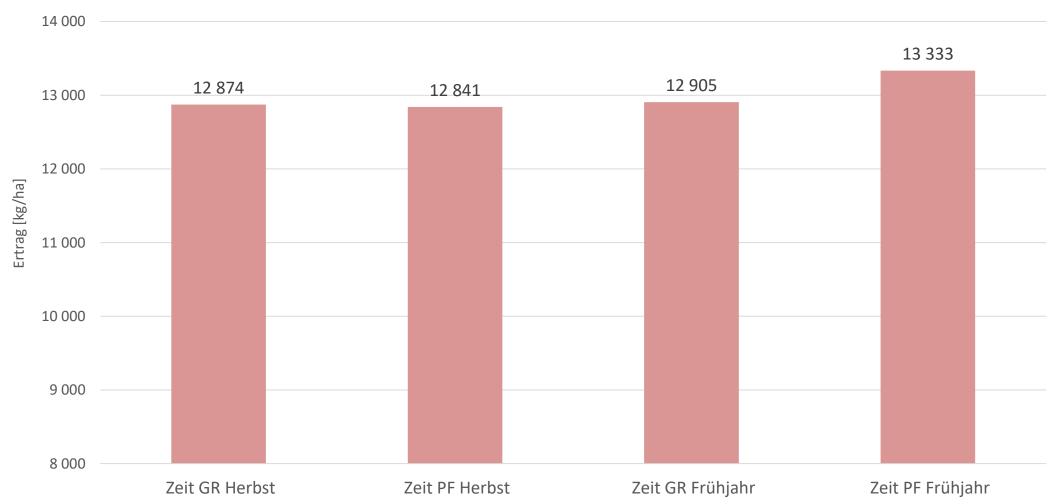
Erträge 2019 bis 2024 Zeitpunkt

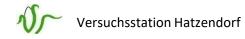






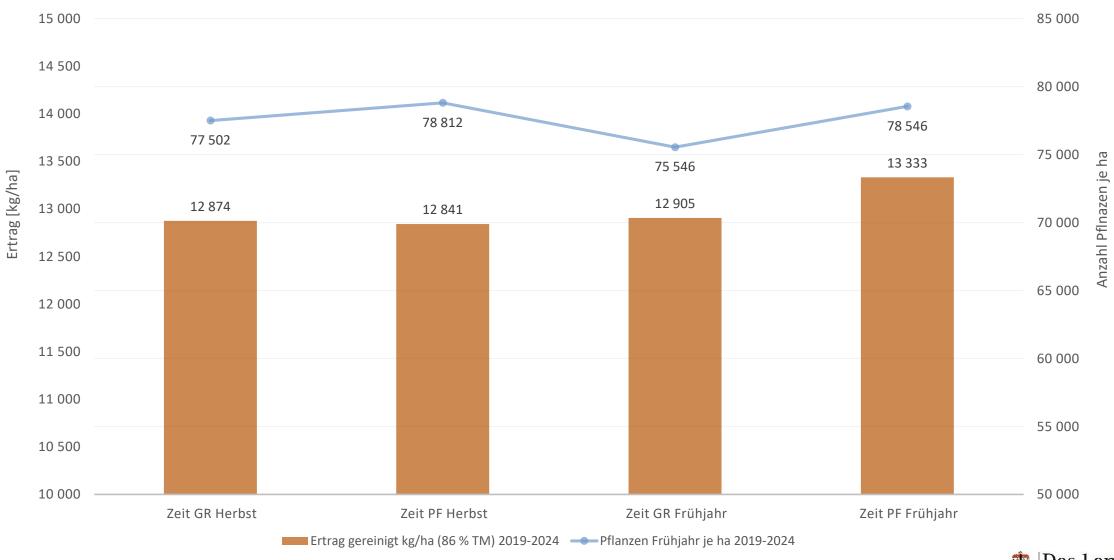
Erträge 2019 bis 2024 Zeitpunkt



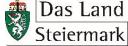


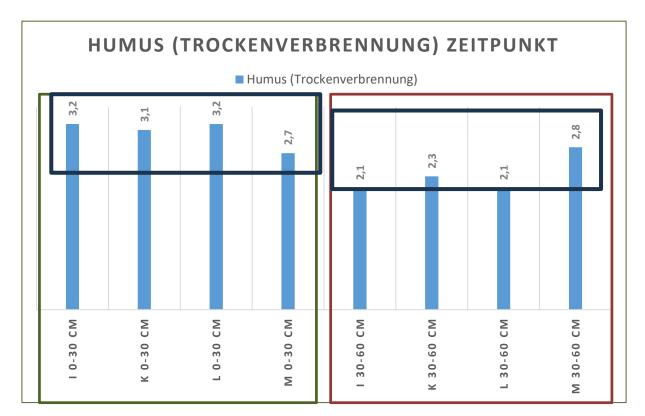


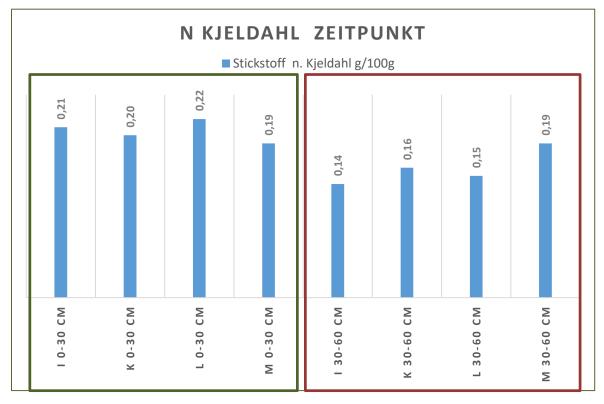
Pflanzenaufgang – Ertrag 2019-2024









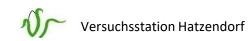


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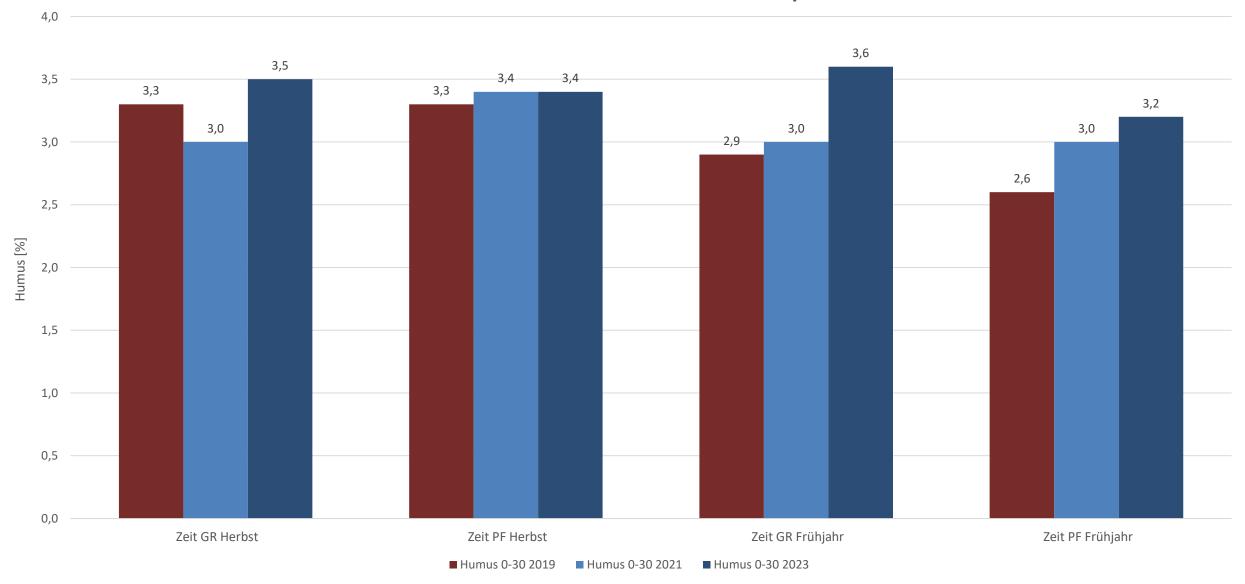
I	Grubber Herbst
K	Pflug Herbst
L	Grubber Frühjahr
M	Pflug <i>Frühjahr</i>

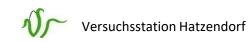
2020: 3,3% Humus



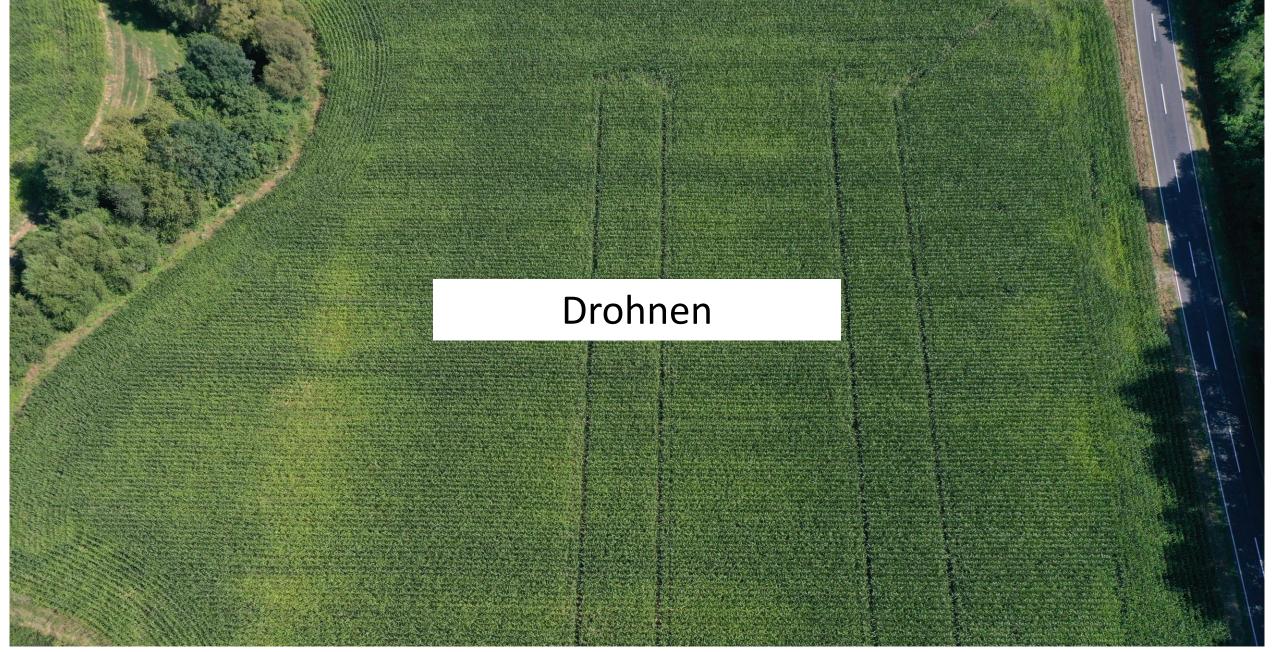


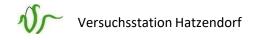
Humus 2019 bis 2024 Zeitpunkt





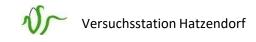






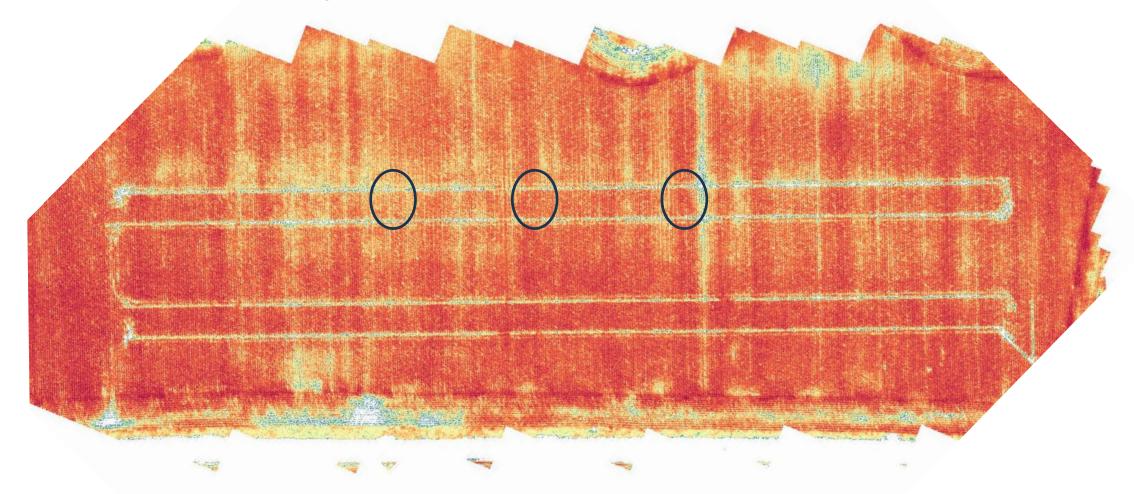


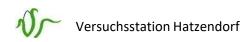






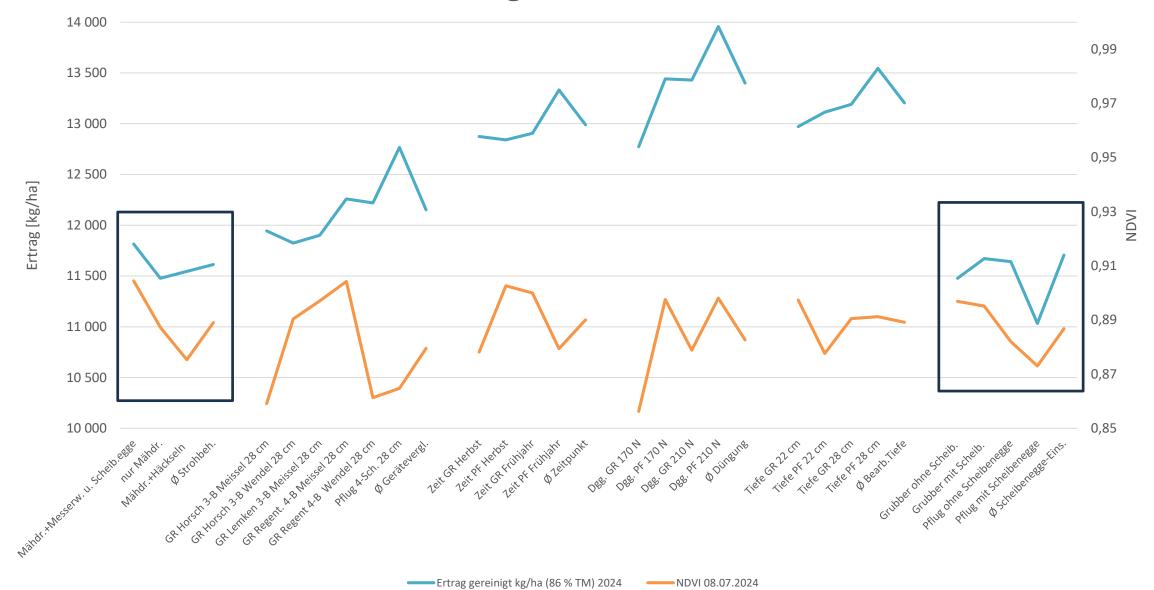
Multispektralbild 08.07.2024 NDVI







Erträge 2024 - NDVI









Danke für Ihre Aufmerksamkeit



