

Perennial Potato Experiments

Consumption Potato Type Adretta

with plant growth stimulant bio – algeen S 90 Plus 2

by agro-nord Kürzinger GbR

Results of 2017 - 2024

bio-algeen®
Schulze & Hermesen GmbH

plant growth
stimulant

**The
root expert!**



bio-algeen®
Schulze & Hermesen GmbH

Economy and Environment in Harmony

Agro nord - Kürzinger GbR
Dr. Robert Kürzinger
Zum Buchenkopf 29
D-18190 Sanitz / Groß Lüsewitz

Test arrangements:
2017-2024

cf	Product	Quantity of expenditure and total amount	Date	Stage of development – BBCH - Code			
				10	20	30	40
1	comparison without bio-algeen						
2	 Schulze & Hermesen GmbH S 90 Plus 2	4	D1	2			
			D2		2		
3 standard-variant	 Schulze & Hermesen GmbH S 90 Plus 2	5	D1	2			
			D2		1		
			D3			1	
			D4				1
4	 Schulze & Hermesen GmbH S 90 Plus 2	4	D1	1			
			D2		1		
			D3			1	

variety description	
Type	Adretta
stage	III-semi-early
Approved	1975
Cultivator	NORIKA
Usage	Consumption
Type of cooking	Floury
Number of tubers	Medium to high
Tuber yield	Medium
Starch content	Medium
crop	Medium

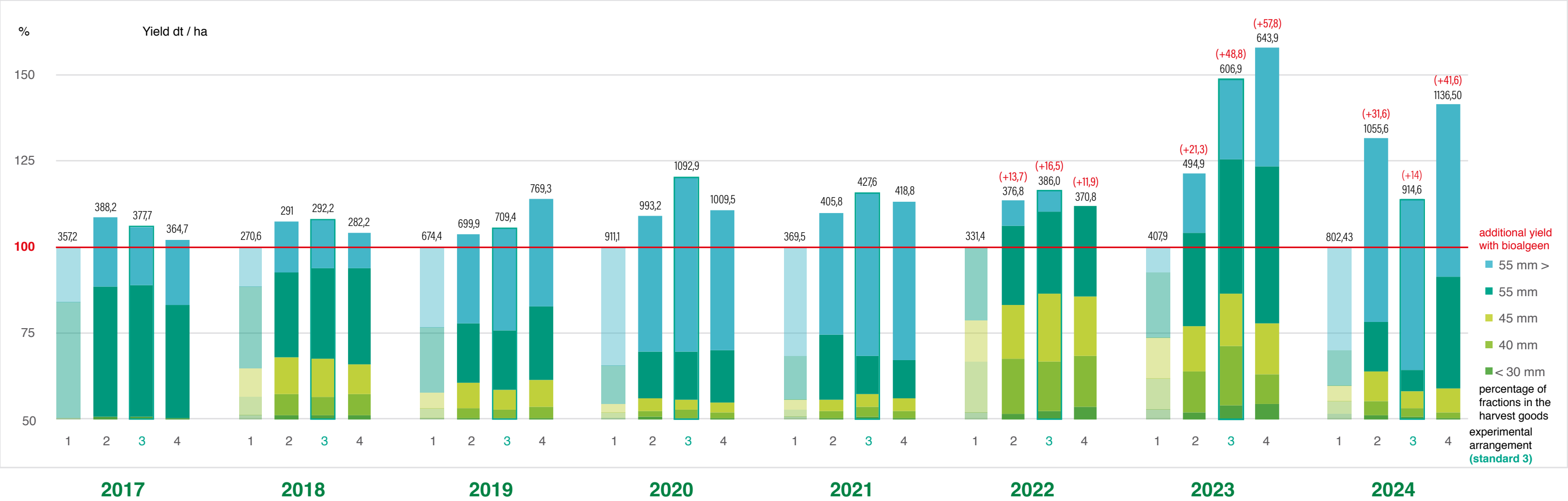


Test data agro-nord Kürzinger GbR

Customer:	Schulze & Hermesen GmbH Mittelstraße 6 D-21368 Dahlenburg							
Investigator:	agro nord 18190 Groß Lüsewitz							
Testing location:	2017	2018	2019	2020	2021	2022	2023	2024
Testing number:	R. Kürzinger							
Culture:	Sanitz							
Treatments:	Sanitz	Pflhm39-2018	D20	D9-2020	D35-2021	V24-2022	V26-2023	V19-2024
Repititions:	Potato							
Plot size:	4							
Row spacing:	4							
Tuber spacing row:	21m²	21m²	24,5m²	21m²	21m²	21m²	21m²	21m²
Test facility:	75 cm							
Previous crop:	28 cm							
Pre-previous crop:	randomized							
Fertilization NPK, CaO,MgO	winter wheat	winter wheat	corn	winter wheat	winter wheat	Hafer	Rape	Rape
Soil texture/ -number:	Winterweizen						Oat	Oat
Cultivation time:	16-5-17 --(7,5dt/ha) »(144kg/N abz. N-min)	16-5-17 --(7,5 dt/ha) 1,5 dt/ha wSulfammon 32	13-5-17 - - (9,5 dt/ha)	140-40-140-70-30 Physiomag, 13-5-17 Sulfa 24	Physiomax 1,6 t/ha Activ`N 13-5-17 - 1,6 t/ha Activ`N 0,4 t/ha	Physiomax 0,8 t/ha Activ`N 13-5-17 - 0,8 t/ha Activ`N 0,2 t/ha	Activ`N (13-5-17)- 0,8 t/ha Activ`N (15-20) - 0,188 t/ha	Activ`N (13-5-17) 0,8 t/ha N-104; P-40; K-13;; S-51,2; Mg-24,0; sonstige- B, Zn, Mn Activ`N (15-20) 0,113 t/ha N-16,95; P-22,6; S-9,04; Mg-3,39; sonstige- Zn
Start:	IS / 35							
Applicator:	12.05.17	15.05.18	13.05.19	05.05.20	22.05.21	18.05.22	18.05.23	27.05.24
Nozzle type:	25.-29.05.2017	08.06.18	30.05.19	30.05.20	10.06.21	01.06.22	04.06.23	01.06.24
Operating pressure:	Plot Sprayer PL1							
Application method:	AirMix 110-03							
Water rates:	3,2 kp/cm²							
Application rate:	Spraying							
Harvest:	300 l/ha or according to testplan							
Mittelaufwandmenge	in accordance with testplan							
Ernte	18.09.17	28.09.18	26.09.19	15.10.20	17.08.21	01.10.22	20.09.23	20.08.24

Perennial Potato Experiment
agro-nord Kürzinger GbR
Results 2017 - 2024

Chart of yield and proportion of fractions
in harvest
of the years 2017 - 2024



Weather evaluation with influence on yield

Compared to the climatic mean 1981 – 2010, the year 2017 was too wet. The generally wet weather lasted until spring 2018, making tillage more difficult. From April 2018, a long dry period set in. First it provided a lot of sunshine for an explosive plant development, but later it led to a high stress potential for many cultures. Quality degradation and yield reduction were the consequences. The warmth and the rainfall of July 2019 stayed at the long – term mean. A high number of hot days were recorded up until August but these were balanced by the maritime climate of the test location. (Strong formation of dew at night and in the morning)

starch content



Further application advice in the bio-algeen Potato booklet.



Schulze & Hermsen GmbH

S90 Plus 2

Higher yields

-- better quality --



Jersey Royals | Richardson | UK

with
bio-algeen
S 90 Plus 2

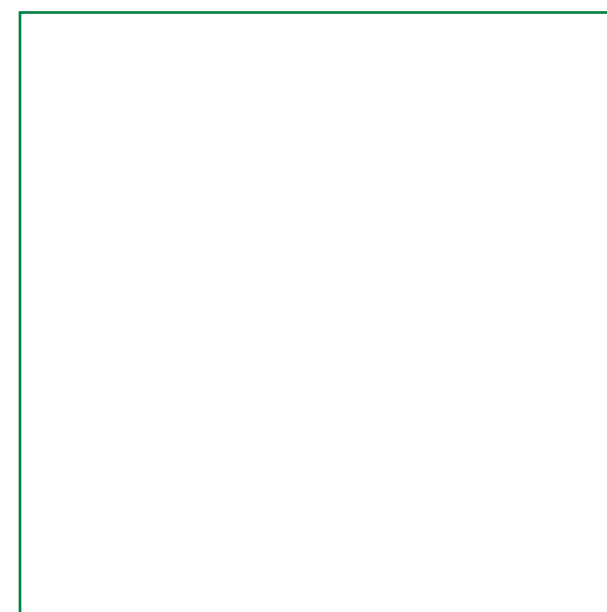
without
bio-algeen
S 90 Plus 2



Schulze & Hermsen GmbH

S90 Plus 2

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