Report of trial

Crop: Spring wheat

Type of experiment: varietal

Test place (locality): Hněvčeves

Established: 2024

Harvest year of the experiment: 2024

Production type, subtype: Ø1, T3

District: Hradec Králové

Region: Hradec Králové

Post office nr.: 50315

General data

Experimental hunt: sowing procedure 5-hundred

Location: slope 0

exposure 0

altitude: 265 m

evenness of the land - even

Soil: type, subtype, substrate HMi

topsoil: type - clayey loam

depth cm.....30 - 40 cm

Climate:

annual precipitation normal (1991 - 2020): 565.4 mm annual temperature normal (1991 -

2020): 9.23°C

Pre-crops and their fertilization:

Year	Pre-crop	yield	Dose	of clear	nutriti on	kg/ha		other	type	amount.	in t/ha
		t/ha	N	P	K	Mg	Ca				
2023	Spring barley		75								
2022	Winter wheat		145								
2021	Field pea										
2020	Winter wheat		170				194				
soil (a	ent supply in the eccording to the sis of the day)	22.4.2024		P 129,1	K 191	Mg 244	Ca 2224	Humus 1,97	pH 5,14		

Preparation of the trial plot: (type of work, number of operations, date)

20/09/2023 - stubble cleaning

27/11/2023 - ploughing, Kverneland

14/03/2024 - hauling, compactor - tearing down the rough furrow

15/03/2024 – hauling, compactor - pre-seeding preparation

15/03/2024 - sowing Astrid

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Experiment scheme - distribution of repetitions and experimental variants according to reality:

С	2	1	4	3	5
В	1	3	5	4	2
Α	5	4	3	2	1

Trial variants

1	control	300 kg NPK
2	ekofertile 10 %	300 kg NPK
3	ekofertile 5 % + microfertile 5 %	300 kg NPK
4	microfertile 10 %	300 kg NPK
5	ekofertile 5 % + microfertile 5 %	240 kg NPK

Dimensions of the harvesting unit: 10 m²

net length: 8 m,

net width: 1.25 m

harvest net area: 10 m2

Dimensions of the separation spaces and edges:

separation width - transverse cm 200 longitudinal 50 cm

length of edges - front 5 m

rear 5 m

Number of rows: 10,

Number of repetitions: 3

distance: 12.5 cm

Sowing trial - date:..... 15.3.2024, Wintersteiger carried Soil condition at sowing (moisture, structure): moist

Agrotechnical interventions after sowing (mechanical and chemical treatment of the trial - date, type of work, number of operations, preparation and dosage)

15.3.2024 - NPK fertilization according to variants (manual)

11.4.2024 - fertilization 60 N (230 kg DASA/ha)

30.4.2024 - spraying HE - Agritox 1.5 l/ha, Hardi sprayer

20.5.2024 - fertilization 20 N (74 kg LAV/ha)

20.5.2024 - spraying HE - Zypar 1.0 l/ha, Hardi sprayer

 $10.6.2024 - spraying \ FU + INS - Alterno \ 0.5 \ l/ha + Curbatur \ 0.5 \ l/ha + Nexide \ 0.08 \ l/ha,$

Hardi sprayer

12/08/2024 - trial harvest, small plot combine Sampo 2010

Description of the growth and the influence of the weather during the growth period (detail all the favorable and unfavorable circumstances that influenced the result of the experiment.

August 2023 was well above normal in precipitation but was followed by a very dry September with almost no precipitation. The months of November 2023 to February 2024 were highly above normal in terms of precipitation. Therefore, the soil was moist to wet during ploughing. The winter was mild, the snow cover only lasted a few days at the turn of November and December. Soil preparation before sowing was tied to soil moisture and took place at the earliest possible date. The April frosts came when the wheat was in the 3-leaf

Panovská 507, 161 C6 Praha 6 - Rusyně 1C: 000:700 - D1C: C100:2000 stage to the beginning of tillering and probably affected the number of tillers produced. The vegetation was quite sparse.

The yields for individual variants of the biostimulant were higher compared to the untreated control:

- for variant 2 (Ekofertile 10%) by 4,3%,
- for variant 3 (Ekofertile 5% + Microfertile 5%) by 5,6%,
- for variant 4 (Microfertile 10%) by 6,2%,
- for variant 5 (reduction of NPK to 80%, Ekofertile 5% + Microfertile 5%) by 2,8%.

The harvest was carried out by the Sampo 2010 small-plot harvester on 12 August 2024 and took place without technical complications.

In Hněvčeves	 on 23	8 2024	
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Experimenter: Ing. Lenka Odstrčilová, Ph.D. Head of experimental station: Ing. Lenka Odstrčilová, Ph.D.

> zz pmný ústav rostlinné výroby, v.v. rnovaká 507, 161 06 Pmha 6 - Razyna 1C: 0002700 - DiC: CZ00027006

adjuct.

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1	Locality:			Hnèvčeves		Year of the harvest:	rvest	2024												
							Attack resistance	ence.			Resistance	Resistance								
					psydery milden	pendery tallden	frin	Вези	trast	tunt		agazmei	Weight of 1630	Volumetric	Average height of the plants		height 1 height 2 height 3 height 4 height 5	height 3 h	eight 4 h	vight 5
Report.	Nr.	Variant	Yield at 14% is heatisticy	Yield corrected to control	leave	- Lat	wheat - leave	wheat-ear	nhen	nend	bing denn I	lying dern II	grains						1	
			(4/kg)	(343)	(9, 1)	(8,1)	(6.3)	(8.1)	(9, 1)	(9.1)	(9.1)	(9,1)	(8)	(64,54)	(cm)					
¥	-	Kontrola	6.84		0,	6	7	ø.	2	7	6	6	36.85	68,4	73.4	72	70	11	11	77
В		Kontrola	6,60		6	6	7	6	7	7	6	6	36.92	6'89	79.2	22	83	83	11	11
C	-	Kontrola	6,56		0	O	7	6	7	7	6	6	36.10	67.1	77.8	82	80	73	78	76
	Průměr	Kontrola	6,58	100.0	9.00	00'6	7,00	9.00	7.00	7,00	9.00	00'6	36,51	06'89	78.50					
Y	61	chofertile 10 %	6.52		0/	6	7	O.	7	7	6	6	36.02	68.4	79,4	7.9	11	11	82	50
В	7	ekofertile 10 %	7,48		0.	6	7	6	2	7	6	6	36,41	69.3	9'08	82	50	80	26	08
C	2	ekofertile 10 %	6,25		6	6	7	6	7	7	6	6	36,09	69.3	78.4	277	75	92	80	84
	Průměr	ekofertile 10 %	98'9	104.3	00'6	9.00	7,00	00'6	7.00	7,00	9.00	00'6	36,25	69,30	79.50					
Y	6	ekofertile 5 % + microfertile 5 %	6,75		6	6	7	6	7	7	6	6	36.94	68.6	74.8	78	72	80	7.1	73
В	9	ekofertile 5 % + microfertile 5 %	6.86		0,	6	7	6	7	7	6	O)	36,75	68.8	77.8	76	7.5	80	80	78
С	3	ekofertile 5 % + microfertile 5 %	7,04		6	6	7	6	7	7	0	6	36,66	1.9	77,8	22	1.8	92	2	6
	Průměr	ekofertile 5 % + microfertile 5 %	\$6.9	105,6	9,00	9,00	7,00	9.00	7,00	7,00	9.00	9,00	36,71	67.90	77.80					
V	7	microfertile 10 %	6,86		6	6	7	6	7	7	0	0	37.41	68.5	78,4	78	20	80	12	83
В	4	microfernle 10 %	6.92		6	6	7	6	7	7	0	0.	37,63	70	77,8	26	00	83	7.3	81
J	7	microfertile 10 %	7,06		٥	6	7	6	7	7	6	0	37.38	68.5	78,8	83	83	74	7.3	81
	Průměr	microfertile 10 %	66'9	106,2	00'6	9,00	7.00	9,00	2,00	7.00	00'6	00'6	37.51	69,25	78,30					
K	v	ekofertile 5 % + microfertile 5 %.	6,85		6	6	7	6	7	7	6	6	37,31	6'89	79	177	80	7.2	80	18
В	10	ekofertile 5 % + microfertile 5 %	7,00		6	6	7	6	7	~	0	6	37.67	89	79,4	81	81	200	74	83
Ü	10	ekofertile 5 % + microfertile 5 %	6,53		0	6	7	O1	7	7	6	6	37.73	68.6	78,6	81	22	90	SG	11
	Průměr	Průměr ekofertile 5 % + microfertile 5 %	6.77	102,8	90'6	00'6	7,00	9,00	7.00	7,00	9.00	00.6	37,70	68,30	79,00					

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