

Centralny Ośrodek Badania Odmian Roślin Uprawnych

Research Centre for Cultivar Testing (COBORU)

Research Centre for Cultivar Testing

Śłupia Wielka 34, 63-022 Śłupia Wielka, woj. wielkopolskie, Poland

Phone: (+48 61) 285 23 41; Fax: (+48 61) 285 35 58

E-mail: sekretariat@coboru.gov.pl; Website: www.coboru.gov.pl



17th EU-VCU Seminar, Korsør, Denmark, 2024 May 13-15

www.coboru.gov.pl



Information on:

- **COBORU's experimental network**
- **Statistics on the national listing and national PBR in Poland**
- **Project PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT PROTEIN FOR FEED PURPOSES (2024-2025)**
- **Weather anomalies in the current experimental season 2023/2024 in Poland**

Information on:

- **COBORU's experimental network**
- Statistics on the national listing and national PBR in Poland
- Project PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT PROTEIN FOR FEED PURPOSES (2024-2025)
- Weather anomalies in the current experimental season 2023/2024 in Poland

COBORU variety testing network



16 Experimental Stations for Variety Testing (SD00)

including additional:

34 Experimental Substations for Variety Testing (ZD00)

The size of SD00/ZD00:

< 50 ha	- 17 SD00/ZD00
50 - 150 ha	- 18 SD00/ZD00
150 - 250 ha	- 8 SD00/ZD00
> 250 ha	- 7 SD00/ZD00

The total area of land used by COBORU:

6 534 ha

Employment - 458 people, including 196 examiners

▲ KARZNICZKA - Experimental Station for Variety Testing (SD00)

● Białogard - Experimental Substation for Variety Testing (ZD00)

▲ / ● ZYBISZÓW/Karzniczka - seats of the Inspector

Colour - regions of COBORU Inspectors control activity

Information on:

- COBORU's experimental network
- **Statistics on the national listing and national PBR in Poland**
- Project PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT PROTEIN FOR FEED PURPOSES (2024-2025)
- Weather anomalies in the current experimental season 2023/2024 in Poland

Polish National List

(per plant sector; as of 31.12.2023)

Agricultural plants	– 1 639 varieties (+71) (6,0 % CCA)
Vegetable plants	– 849 varieties (+12) (3,7 % CCV)
Fruit plants	– 303 varieties (-47) (1,8 % FRUMATIS)
Total	– 2 791 varieties (+36)

Register of Varieties Protected by National Plant Breeders' Rights

(per plant sector; as of 31.12.2023)

Agricultural plants	- 719 varieties (-9)
Vegetable plants	- 210 varieties (+3)
Fruit plants	- 115 varieties (-9)
Ornamental plants	- 249 varieties (-9)
Total	- 1 293 varieties (-24)

Number of applications *(per year)*

➤ for National Listing

Group of plants	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total	611	610	553	651	651	729	713	743	698	728
Agricultural	575	564	508	599	612	644	646	638	646	632
Vegetable	27	39	39	38	36	53	56	96	49	71
Fruit	9	7	6	14	3	32	11	9	3	25

➤ for Grant of National Breeder's Right

Group of plants	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total	75	97	115	110	103	127	148	123	116	159
Agricultural	29	36	69	48	35	48	57	43	40	53
Vegetable	15	12	12	8	6	8	11	21	19	16
Fruit	8	8	7	13	11	11	23	10	6	47
Ornamental	23	41	27	41	51	60	57	49	51	43

Number of applications for NLI. Agricultural species (VCU Assessment)

Species	2014/ 2015	2015/ 2016	2016/ 2017	2017/ 2018	2018/ 2019	2019/ 2020	2020/ 2021	2021/ 2022	2022/ 2023	2023/ 2024
Total	535	552	501	583	596	609	613	602	626	609
Winter Barley	33	43	32	35	41	30	39	30	24	31
Winter Wheat + Durum + Spelt	75+4+0	101+0+0	79+2+1	84+2+2	88+3+2	92+1+1	87+1+0	87+0+1	87+0+0	95+0+0
Winter Rye	26	23	22	18	24	25	24	23	28	29
Winter Triticale	18	20	22	21	23	28	24	27	24	29
Spring Barley	35	31	32	37	33	34	44	31	27	23
Spring Wheat + Durum	18+0	20+1	13+0	19+0	29+0	27+0	25+0	24	22+0+0	19+0+0
Spring Triticale + Rye	2+0	7+0	3+3	7+1	2+2	5+4	3+3	6+2	8+0	5+4
Oat: Spring + Winter	9+1	20+1	10+1	20+1	14+1	17+0	21+0	16+0	18+2	14+1
Maize	96	73	85	104	117	132	116	132	129	125
Winter Oilseed Rape	99	104	89	100	94	96	90	82	77	93
Sugar Beet	55	57	60	61	62	61	59	60	78	62
Potato	17	19	15	22	26	13	18	21	19	16
Legumes + Soya Bean	26	19	19	25	25	22	29	32	40	34 +2oz
Herbage Legumes	2	0	5	5	2	4	4	6	6	1
Grasses (Fodder)	1	6	0	10	1	7	11	14	14	18
Other species	18	7	8	9	7	10	15	8	23	8

Other: 2024 - Spring Oilseed Rape (3), Flax (1), Fodder Beet (4),

2023 - rzepak jary (7), rzodkiew oleista (4), facelia błękitna (3), słonecznik (3), burak pastewny (2), gorczyca biała (2), len oleisty (2)

2022 - rzepak jary (5), gorczyca biała (1), facelia błękitna (1), rzodkiew oleista (1)



Information on:

- COBORU's experimental network
- Statistics on the national listing and national PBR in Poland
- **Project PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT PROTEIN FOR FEED PURPOSES (2024-2025)**
- Weather anomalies in the current experimental season 2023/2024 in Poland



Project PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT PROTEIN FOR FEED PURPOSES (2024-2025)





Project
**PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT
PROTEIN FOR FEED PURPOSES**
(2024-2025)



Consortium:

- **Agricultural Advisory Centre in Brwinów – Leader**
- **16 Voivodeship Advisory Centres**
- **The National Research Institute of Animal Production in Kraków**
- **The Research Centre for Cultivar Testing in Słupia Wielka**



Project
**PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT
PROTEIN FOR FEED PURPOSES
(2024-2025)**



Aim:

To promote among farmers good practices and innovative solutions applied in the production and use of domestic sources of plant protein for feed purposes and increase the cultivation of this group of crops in Poland





Project
**PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT
PROTEIN FOR FEED PURPOSES
(2024-2025)**



The project includes:

- Trainings for final users (farmers) in total throughout the country of more than 3,300 farmers in 133 visiting groups organised by **Voivodeship Advisory Centres** (14-30 persons each)
- Organisation of a wrap-up Conference - in the winter time for about 300 people.
- Production and publication of brochures and other information on the production and use of domestic protein sources for feed purposes





Project
**PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT
PROTEIN FOR FEED PURPOSES
(2024-2025)**



Types of demonstrations:

- Type A - visits of final users (mainly farmers) **into Experimental Stations and Substations for Variety Testing** (SD00/ZD00), which carry out demonstration plots and trials in the framework of Post-registration Variety Testing System with protein crops (**Pea, Field bean, Narrow-leaved Lupin, Yellow Lupin, Soybean**)
- Type B - visits of final users **into Farms** growing protein crops and using the yields for animal feed on their own farm
- Type C - visits of final users into **Feed Processors** who use domestic protein crops for feed production





Project
**PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT
PROTEIN FOR FEED PURPOSES
(2024-2025)**



The project involves:

- in **41 SDOOs/ZDOOs (Type A)** - COBORU additionally carry out a total of 786 demonstration plots (0.25 ha) with varieties of Pea, Field bean, Narrow-leafed Lupin, Yellow Lupin and Soybean, which are recommended for cultivation within the territory of the voivodeship
- in **40 farms growing protein crops for feeding animals in their own farm (Type B)** - farmers additionally carry out of demonstration plots (0.25 ha) with at least one variety of soybean and one variety of another protein crop and prepare demonstration of the feed preparation process (including the use of extruders) on these farms.
- in **10 Feed Processors using domestic raw materials (Type C)** - processors prepare demonstration of the feed production process - starting from receipt of raw material from farmers to ending with the departure of the final products



Information on:

- COBORU's experimental network
- Statistics on the national listing and national PBR in Poland
- Project PRODUCTION AND USE OF DOMESTIC SOURCES OF PLANT PROTEIN FOR FEED PURPOSES (2024-2025)
- **Weather anomalies in the current experimental season 2023/2024 in Poland**

Weather anomalies in the current experimental season 2023/2024 in Poland (COBORU weather stations)

Month	VIII	IX	X	XI	XII	I	II	III	IV	V	VI	VII
Precipitation (mm)												
1996-2022	70	55	46	39	38	37	33	35	36	66	70	94
2023/2024	109	28	70	69	51	45	58	27	38	-	-	-
2022/2023	64	73	27	22	51	57	44	44	43	37	58	64
2021/2022	130	40	19	42	34	42	50	10	41	42	61	79
Precipitation (% of average for 1996-2022)												
2023/2024	156	51	152	177	134	122	176	77	106	-	-	-
2022/2023	91	133	59	56	134	154	133	126	119	56	83	68
2021/2022	186	73	41	108	89	114	152	29	114	64	87	84
Temperature (°C)												
1996-2022	18,5	13,5	8,7	4,1	0,0	-1,7	-0,4	2,8	8,4	13,4	17,1	18,9
2023/2024	20,2	18,1	11,1	4,2	2,1	-0,2	5,9	6,9	10,9	-	-	-
2022/2023	20,7	12,3	11,1	4,3	0,3	2,8	1,2	4,4	7,7	12,4	17,5	19,5
2021/2022	17,0	13,9	9,1	4,9	-1,0	0,9	3,2	3,2	6,7	13,3	18,4	19,0
Temperature (deviation of the 1996-2022 average)												
2023/2024	1,7	4,6	2,4	0,1	2,1	1,5	6,3	4,1	2,5	-	-	-
2022/2023	2,2	-1,2	2,4	0,2	0,3	4,5	1,6	1,6	-0,7	-1,0	0,4	0,6
2021/2022	-1,5	0,4	0,4	0,8	-1,0	2,6	3,6	0,4	-1,7	-0,1	1,3	0,1

Weather anomalies in the current experimental season 2023/2024 in Poland

- **Very wet autumn 2023 - problems with late sowing of winter cereals in most parts of the country - no opportunity to go into the field (to wet)**
- **Very early start of vegetation in „spring” - mid-February**
- **High temperatures at the end of March (30-31 .03 - 24-25 °C) and at the beginning of April (07-09.04 - 26-29 °C) - advancing of vegetation by 3-4 weeks (Oilseed rape flowering at the end of the first decade of April).**
- **Drastic temperature reduction at the end of the second decade of April (18-22.04) - with frosts to minus 6-7 °C – big damages (losses) in orchards, rape also affected**
- **First week of May highest temperatures in Europe (28-30 °C)**

Weather anomalies in the current experimental season 2023/2024 in Poland

➤ Summary:

**At the moment, vegetation of plants in Poland looks good
(except for orchards),**

**but farmers are afraid the coming of drought with high
temperatures in the following months and,**

**above all, a repeat of last year's economic situation, in which
only sugar beet and potatoes were profitable**

Thank you for your attention

