

**Centralny Ośrodek Badania Odmian Roślin Uprawnych**

# **Research Centre for Cultivar Testing (COBORU)**

**Research Centre for Cultivar Testing**

**Słupia Wielka 34, 63-022 Słupia 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](http://www.coboru.gov.pl)**

**[www.coboru.gov.pl](http://www.coboru.gov.pl)**

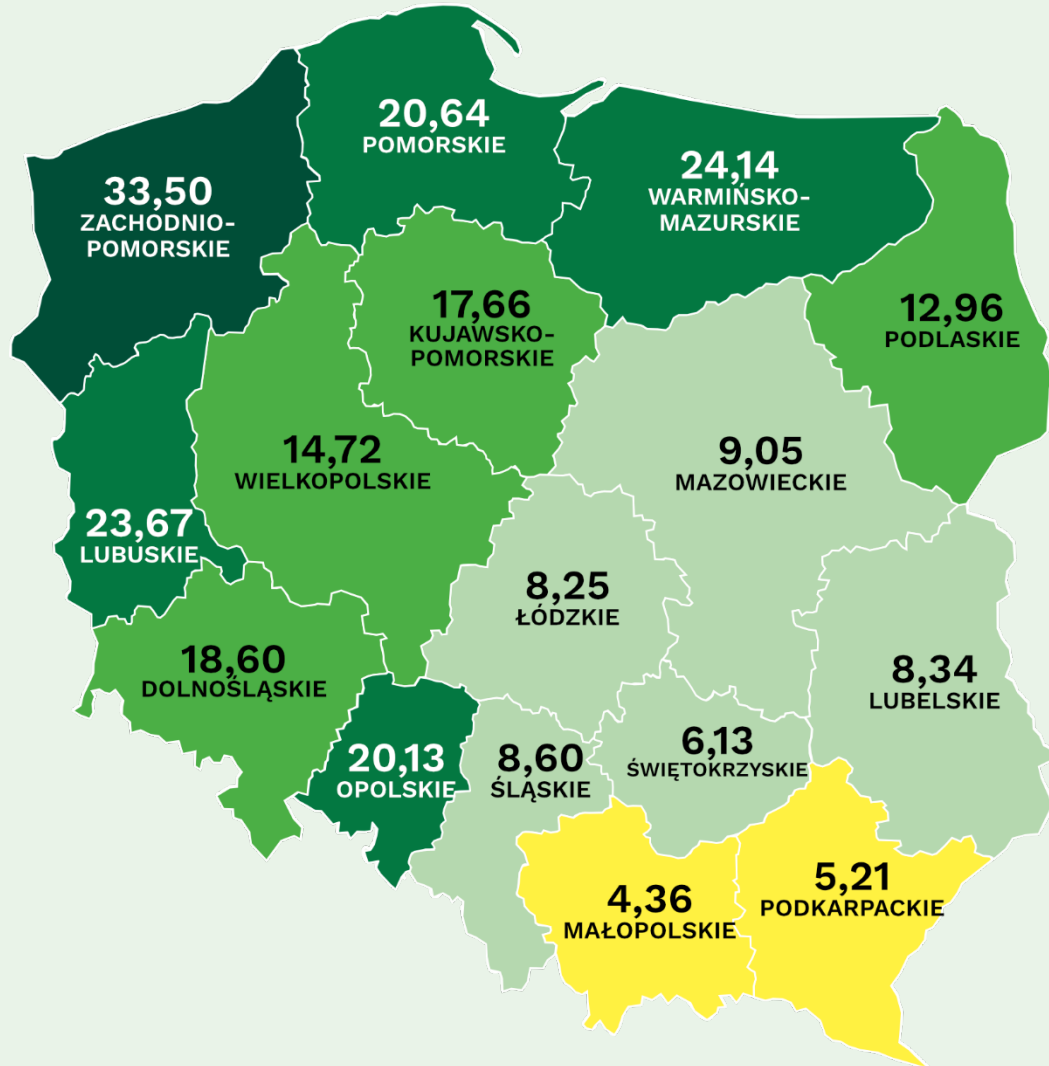


# Facts about Polish agriculture (2024)

- ➡ **Agricultural land on farms** - **14,0** mln ha
- ➡ **Use of agricultural land:**
  - **Arable land** - **10,8** mln ha **(74,6%)**
  - **Permanent meadows** - **2,4** mln ha **(19,1%)**
  - **Permanent pastures** - **0,3** mln ha **(2,6%)**
  - **Others (*including orchards*)** - **0,5** mln ha **(3,7%)**
- ➡ **No. of farms >1 ha** - **1,2** mln
- ➡ **Average farm size (>1 ha) - 11,59 ha**  
(ranging from 14 -33 ha in north-western voivodeships to 4-9 ha in south-eastern ones)

# Average farm size in Voivodeships (ha)

## (wg ARiMR) (2024)



**National average**  
**11,59 ha**

# Main agricultural crops (2024)

	Acreage in 1000 ha	Average yield in dt/ha
<b>Cereals (total)</b>	<b>7089</b>	<b>48,6</b>
<b>Wheat (Winter/Spring)</b>	<b>2384</b> (2216/169)	<b>51,8</b> (52,6/40,9)
<b>Maize (grain/silage)</b>	<b>1891</b> (1270/611)	<b>(70,0/466)</b>
<b>Triticale (Winter/Spring)</b>	<b>1156</b> (1100/56)	<b>44,0</b> (44,5/34,3)
<b>Rye (Winter)</b>	<b>691</b>	<b>35,6</b>
<b>Barley (Winter/Spring)</b>	<b>680</b> (405/275)	<b>43,3</b> (46,8/38,3)
<b>Oat</b>	<b>524</b>	<b>31,7</b>
<b>Cereal interspecies mixtures (Winter/Spring)</b>	<b>284</b> (48/236)	<b>32,5</b> (37,3/31,5)
<b>Oilseed Rape (Winter/Spring)</b>	<b>1106</b> (1089/17)	<b>32,9</b> (35,1/24,9)
<b>Pulses (for grain and green matter) +Soyabean</b>	<b>475</b> (443/32)	<b>(22,2)</b>
<b>Sugar beet</b>	<b>261</b>	<b>650</b>
<b>Potato</b>	<b>195</b>	<b>301</b>





# Main horticultural crops (2024)

**Vegetables** 157 thou. ha + 4,3 tys. ha under cover

Onion – 22 thou. ha (*4 position in EU*), Carrot - 15 thou. ha (*1*),  
Sweet Maize - 14 thou. ha, Cabbage - 13 thou. ha (*3*), Cucurbits - 11 thou. ha,  
Tomato - 9 thou. ha (*8*), Beetroot – 8 thou. ha (*1*), Persley - 7 thou. ha,  
Cucumber - 6 thou. ha (*2*), Cauliflower - 4 thou. ha (*4*)

**Fruit plants** 343 thou. ha

Apple - 148 thou. ha (*2 position in EU*), Currant - 45 thou. ha (*1*),  
Strawberry - 29 thou. ha (*1-2*), Cherry - 25 thou. ha (*2*), Raspberry - 19 thou. ha (*1*),  
Plum - 18 thou. ha (*5*), Aronia - 14 thou. ha, Blueberris - 13 thou. ha,  
Sweet cherry - 10 thou. ha (*6*), Pear - 6 thou. ha (*9*)

*Organic farming* (2024)

636 thou. ha in 22,4 thou. producers



# Legal basis of COBORU activities

## National regulations

- ☞ The Law of November 25, 2010 on the Research Centre for Cultivar Testing (*OJ of 2017 item 2109*), and:
- ☞ The Polish Seed Act of November 9, 2012 (*OJ of 2021 item 129*)
- ☞ The Law of June 26, 2003 on the Legal Protection of Plant Varieties (*OJ of 2021 item 213*)
- ☞ The Law of 23 June 2022 on organic farming and organic production (*OJ of 2023 item 1235*)

# Research Centre for Cultivar Testing (COBORU)(1)

1. COBORU is **a Public Finance Sector Unit** and possesses legal personality
2. COBORU is **an Executive Agency** as defined by Article 18 of the Act of 27 August 2009 on public finance  
*(OJ 2021, item 305)*
3. COBORU shall be **supervised by the Ministry of Agriculture and Rural Development**



# Research Centre for Cultivar Testing (COBORU) ( 2)

➤ **The activity of COBORU shall be financed from:**

**1) the state budget in the form of subsidies:**

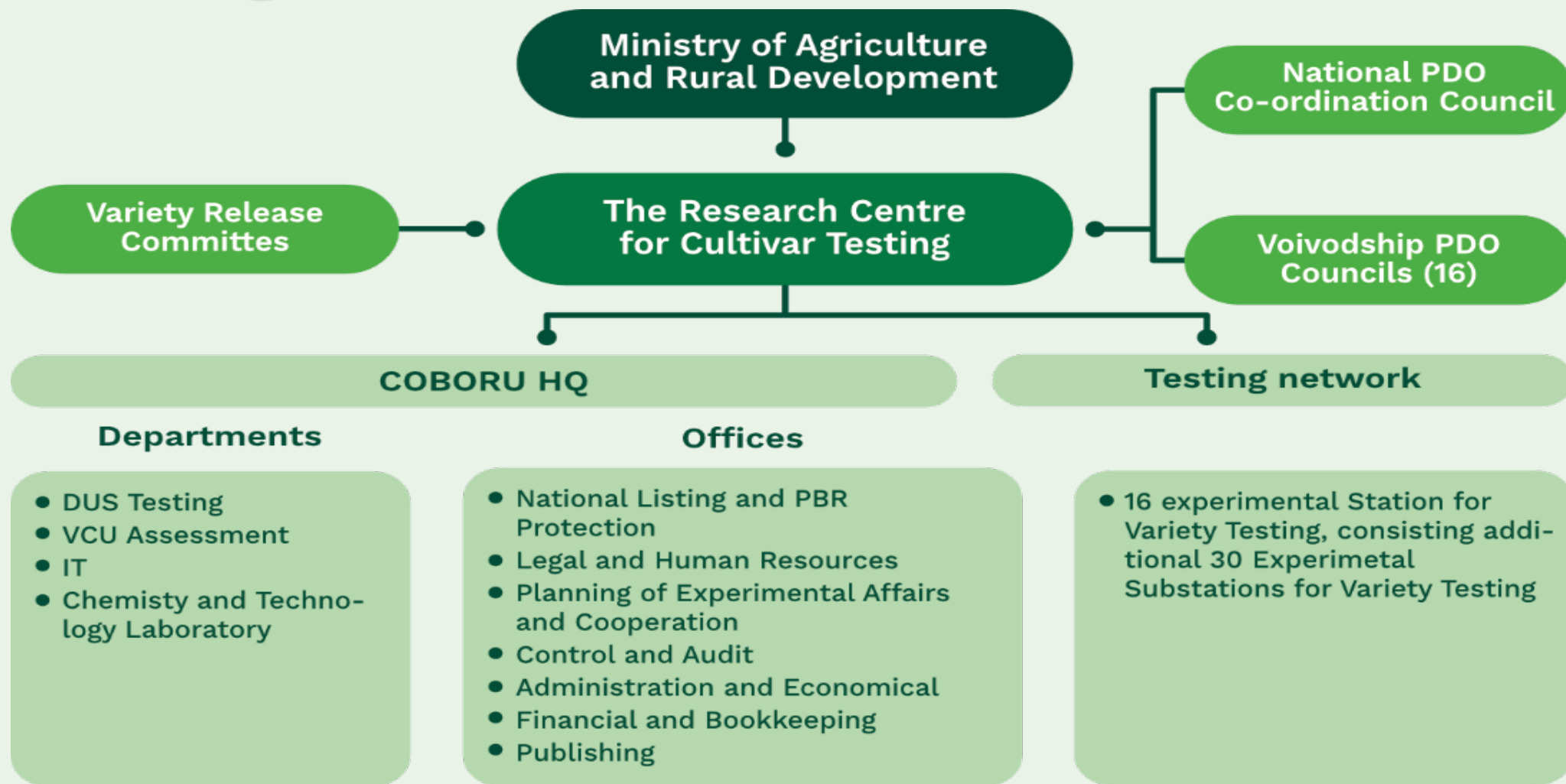
- a) subjective – for subsidizing current activity of the institution,**
- b) purposeful – for financing or subsidizing statutory tasks**

**2) revenues:**

- a) income from agricultural activity,**
- b) income from experimental services,**
- c) miscellaneous incomes;**



# Organizational chart of COBORU

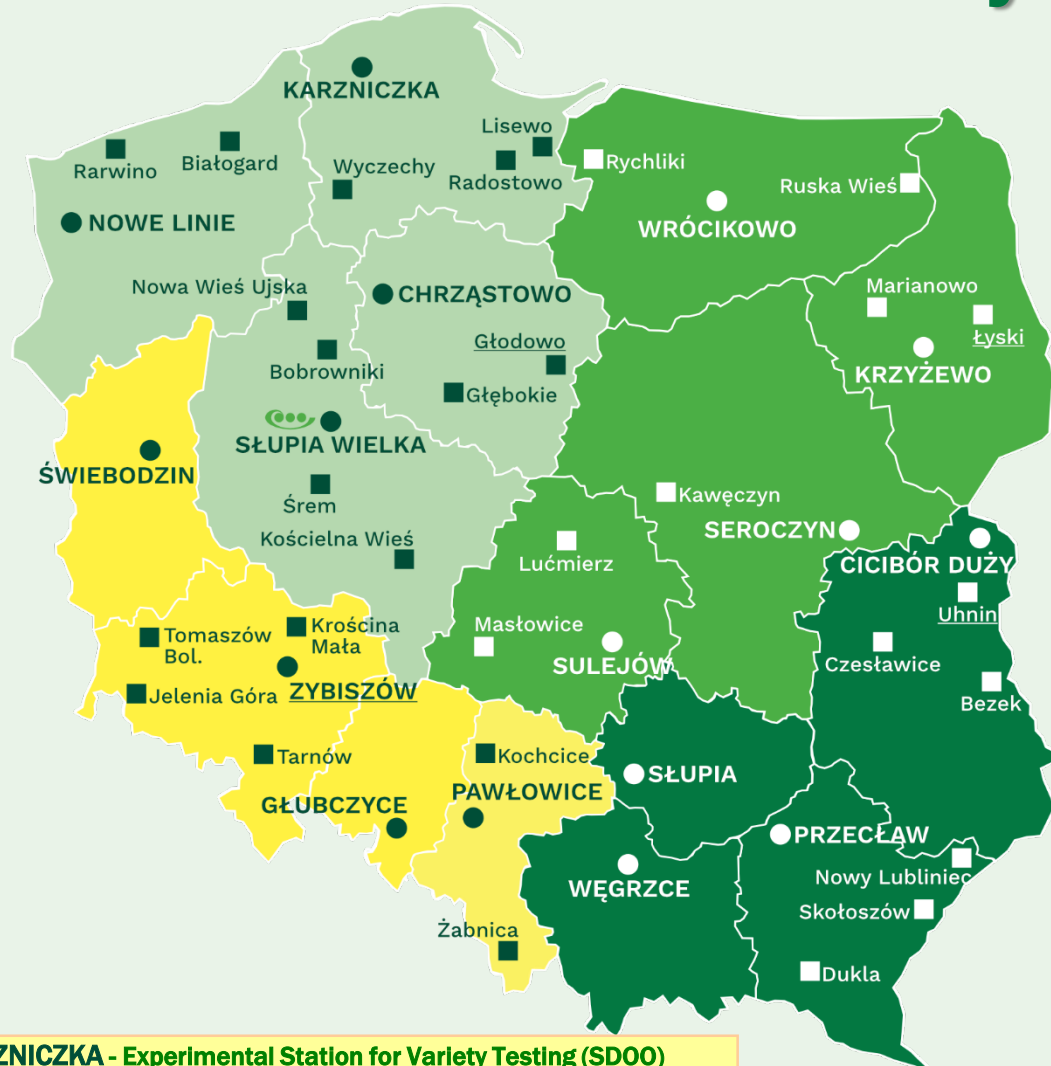


**Headquarter's Employment (31.12.2024) - 117 people**

**The annual meeting of the ESCAA, Krakow, 7-9th May 2025**



# COBORU variety testing network



**16 Experimental Stations for Variety Testing (SD00)**

**including additional:**

**30 Experimental Substations for Variety Testing (ZD00)**

**The size of SD00/ZD00:**

< 50 ha	- 15 SD00/ZD00
50 - 150 ha	- 16 SD00/ZD00
150 - 250 ha	- 7 SD00/ZD00
> 250 ha	- 8 SD00/ZD00

**The total area of land used by COBORU:**

**6 559 ha**

**Employment - 445 people, including 185 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

**The annual meeting of the ESCAA, Krakow, 7-9th May 2025**



# The main COBORU tasks

The Office is responsible for:

- national listing (NLI) of varieties
- administration of national PVP system of varieties
- coordination of national post-registration variety testing system and variety recommendation (PDO)
- post-control seed material tests
- **authorization for marketing** (seed belonging to varieties for which an application for entry to the National Catalogue of Varieties has been submitted)
- **listing of organic heterogeneous materials**
- **conducting of official variety examinations:**
  - ☞ **DUS testing**
  - ☞ **VCU assessment**
- publication of official information on varieties



# **COBORU mission**

*To stimulate innovation  
in plant breeding and seed production  
and  
to support implementation  
of plant variety  
progress into agriculture*





# Cooperation with national and international entities

Ministry of Agriculture  
and Rural Development

Relevant EU  
Commission Committees

Research Centre for Cultivar Testing

## NATIONAL

State Plant Health and Seed Inspection Service

Voivodeship Self-Governments (16)

Agricultural Chambers (16)

Polish Seed Trade Association

Research Institutions and Agricultural Universities

## INTERNATIONAL

Variety Offices in MS

Council and European Commission (DG SANTE)

Community Plant Variety Office (CPVO)

International Union for the Protection  
of New Varieties of Plants (UPOV)

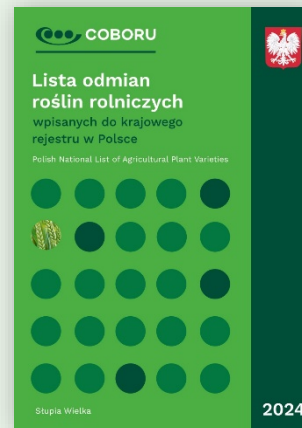
Members of UPOV

Variety Offices of non-EU Countries

The annual meeting of the ESCAA, Krakow, 7-9th May 2025



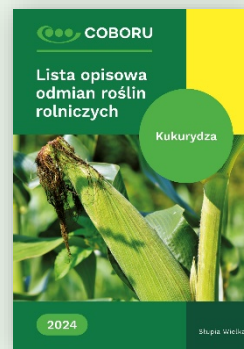
# COBORU publications



## Polish National List of Agri., Veg. and Fruit Plant Varieties

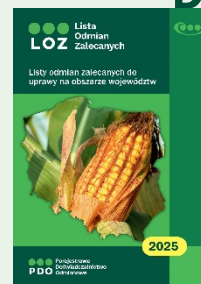
### Polish Gazette for PBR and National List

### Results of Post-registration Variety Testing (PDO) and Official Variety Testing



### Descriptive Lists of Agricultural, Vegetable and Fruit Plant Varieties

### List of varieties recommended for cultivation within the territory of the voivodeship



### Leaflets, folders

The annual meeting of the ESCAA, Krakow, 7-9th May 2025



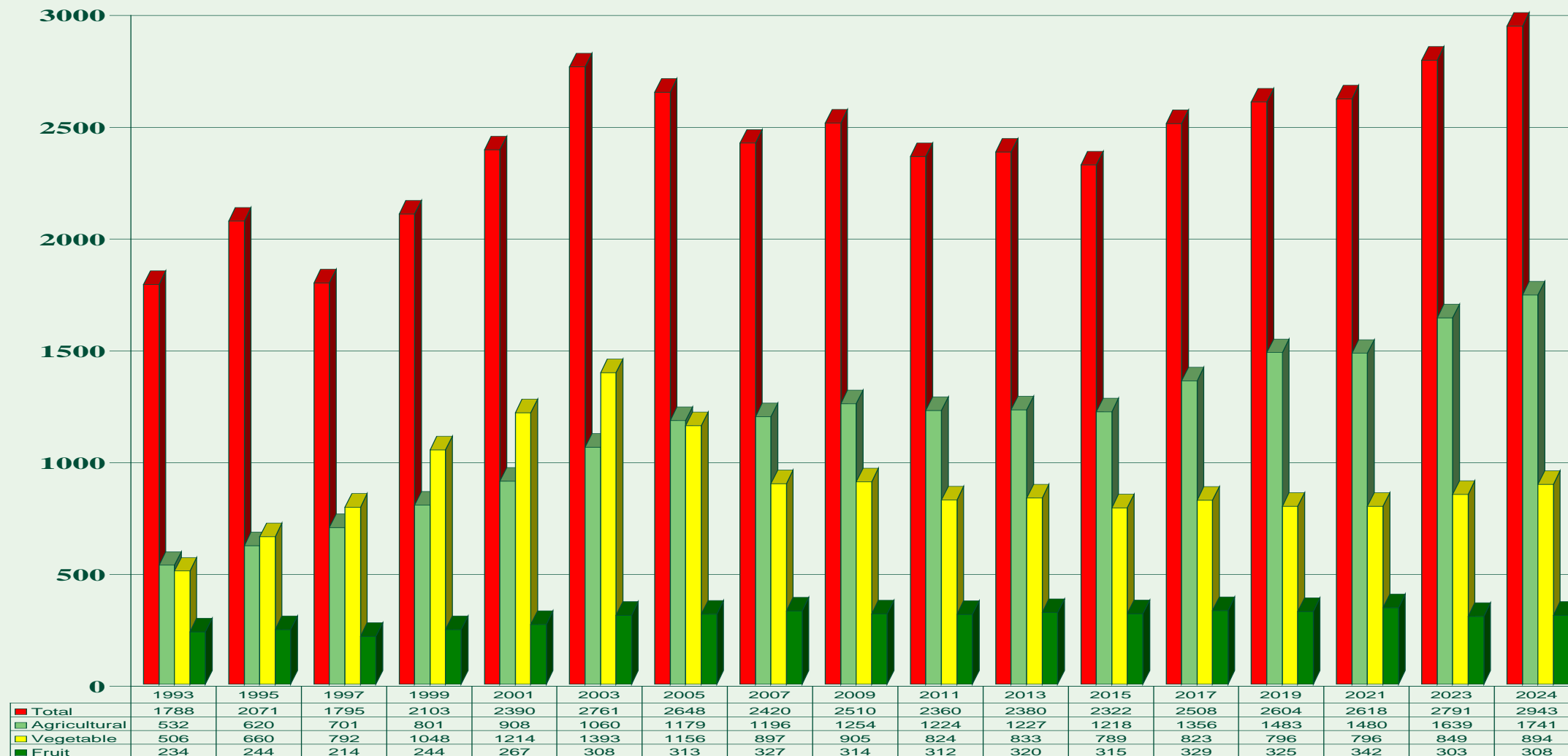
# Polish National List

*(per plant sector; as of 31.12.2024)*

<b>Agricultural plants</b>	– <b>1741 varieties</b> (93 species) (6,0 % CCA)
<b>Vegetable plants</b>	– <b>894 varieties</b> (58 species) (3,7 % CCV)
<b>Fruit plants</b>	– <b>308 varieties</b> (28 species) (1,8 % FRUMATIS)
<b>Total</b>	– <b>2 943 varieties</b> (179 species)

# Polish National List (NLI)

## Number of varieties admitted to Polish National List





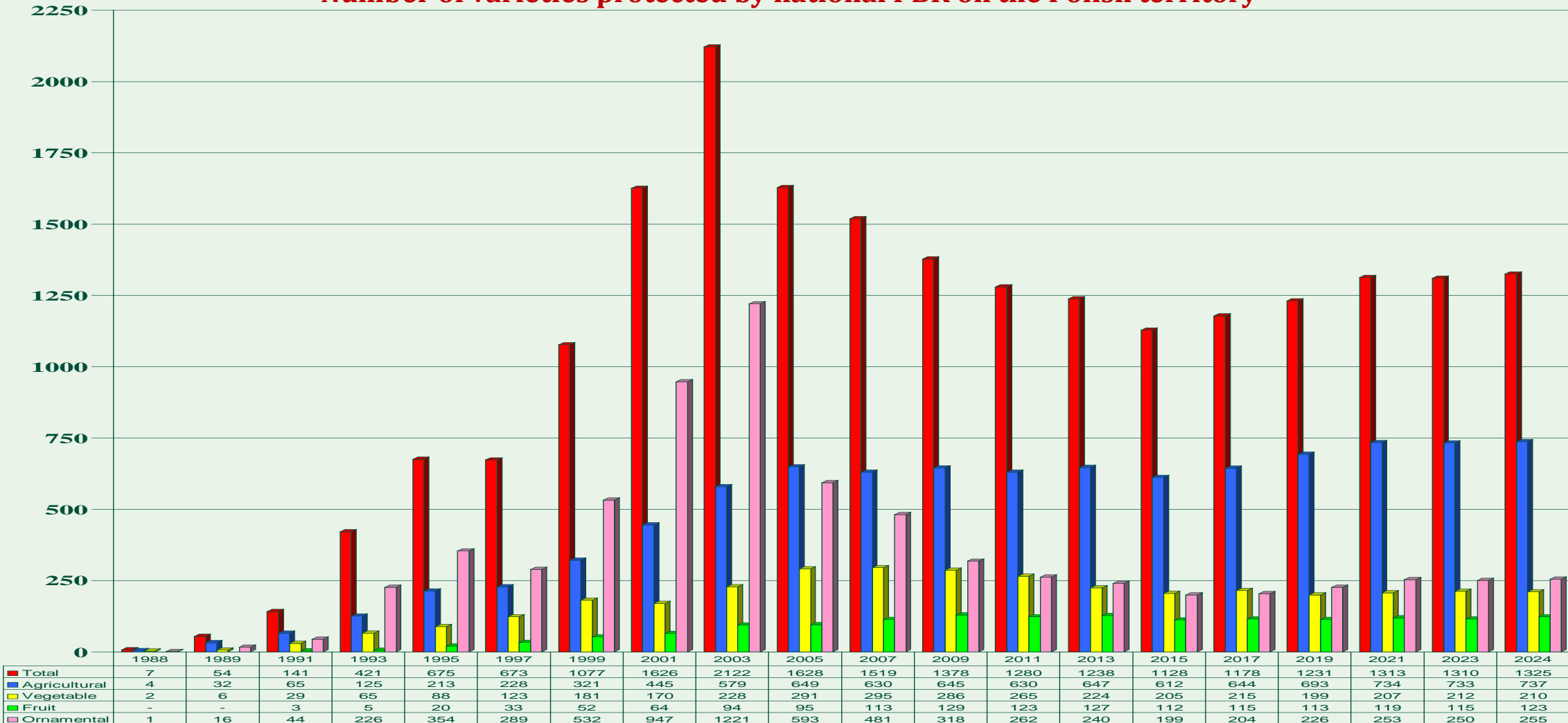
# Register of Varieties Protected by National Plant Breeders' Rights

*(per plant sector; as of 31.12.2024)*

<b>Agricultural plants</b>	<b>– 737 varieties</b>
<b>Vegetable plants</b>	<b>– 210 varieties</b>
<b>Fruit plants</b>	<b>– 123 varieties</b>
<b>Ornamental plants</b>	<b>– 255 varieties</b>
<b>Total</b>	<b>– 1 325 varieties</b>

# Register of Varieties Protected by National Plant Breeders' Rights (PBR)

Number of varieties protected by national PBR on the Polish territory



The annual meeting of the ESCAA, Krakow, 7-9th May 2025



# Official variety testing in COBORU

- DUS testing
- Post-control
- Official VCU assessment
- Post-registration variety testing and variety recommendation (PDO)
- Post-registration variety testing for Descriptive Lists purposes
- Pro-ecological and organic heterogeneous material testing

*Yearly, around **2000 varieties** are tested (VCU)  
in more than **1 500 field trials***





# DUS Tests

**D** – Distinctness

**U** – Uniformity

**S** – Stability

# In Poland



# DUS testing network



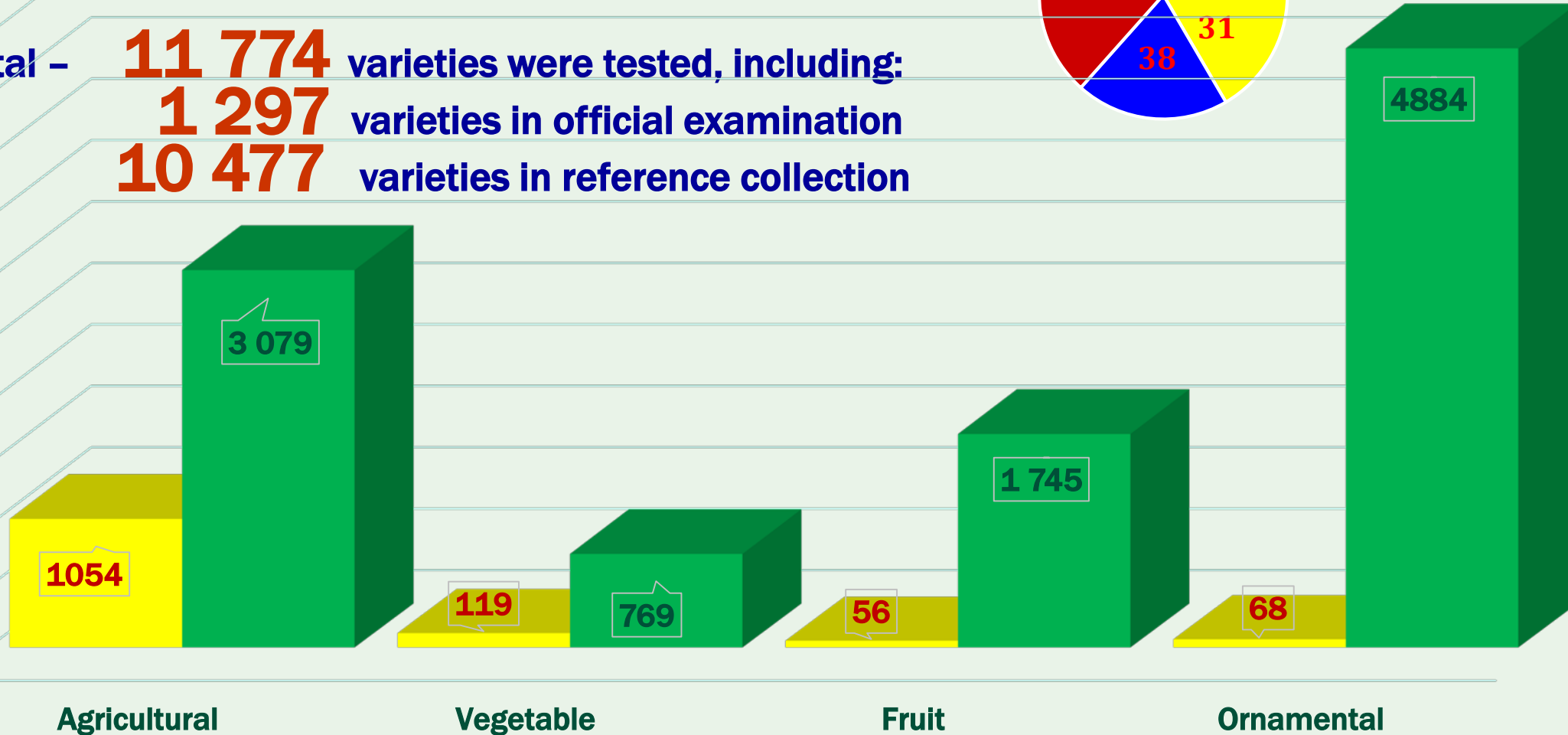
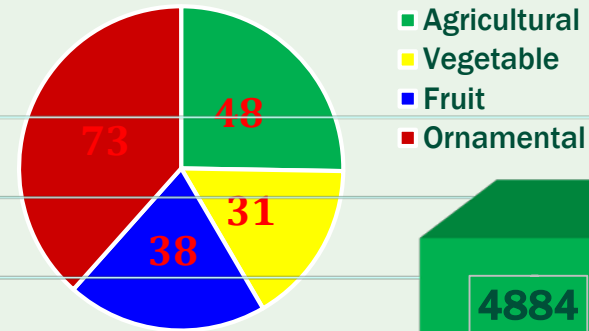
- DUS tests are performed to see if a variety is: distinct, uniform and stable
- DUS testing is conducted within the COBORU testing network
- In each species tests are done in 1 location, for 1–3 (5) vegetation seasons
- DUS tests are conducted according to CPVO Technical Protocols and UPOV Test Guidelines and prepared on their basis - COBORU Guidelines
- Living collections of the reference collection for each genus or species in which varieties are tested are maintained

# DUS tests 2024 statistics

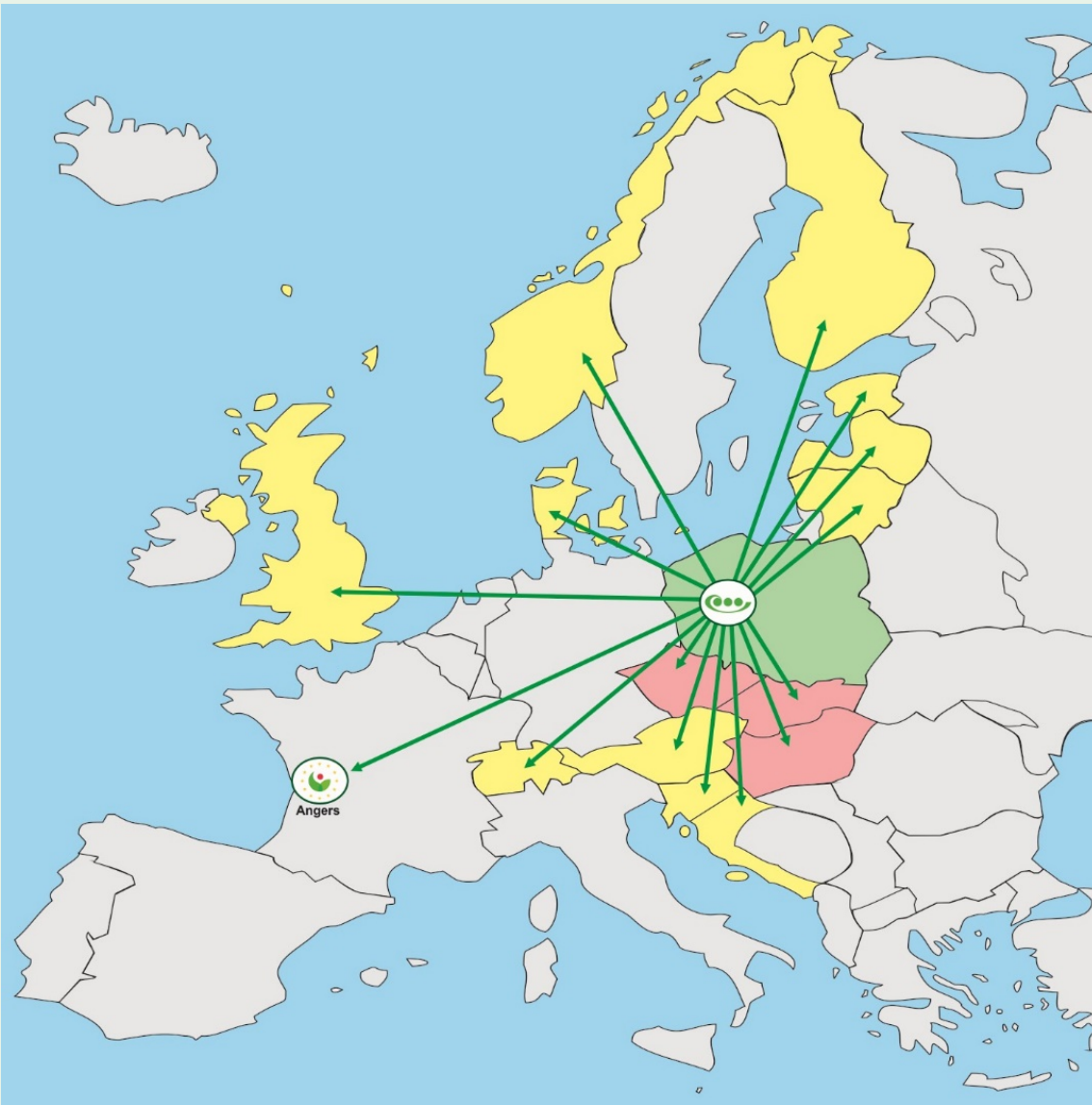
## No. of varieties in trials

Total - **11 774** varieties were tested, including:  
**1 297** varieties in official examination  
**10 477** varieties in reference collection

191 tested species



# Cooperation in DUS testing



*Regular cooperation:*  
UPOV, CPVO, national offices

*Bilateral agreements:*  
*Czech Republic, Hungary, Slovakia*

*In 2024 we carried out DUS tests for:*  
CPVO, Austria, Croatia, Czech Republic, Denmark,  
Estonia, Finland, Great Britain, Hungary, Latvia,  
Lithuania, Norway, Slovenia, Switzerland  
(total: 201 varieties + additional 125 varieties as  
reference collection)

*In 2024 we provided DUS reports to:*  
CPVO, Austria, Bosnia and Herzegovina, Croatia,  
Czech Republic, Denmark, Estonia, Finland,  
France, Great Britain, Ireland, Lithuania,  
Netherlands, Romania, Slovenia, Sweden,  
Switzerland, Turkey, Ukraine  
(total for: 161 varieties and some hybrid  
components)

# DUS testing for CPVO

COBORU is entrusted for carrying out of DUS tests  
in favour of CPVO for 237 taxa

The most important taxa are:

## Agricultural Plants (36 taxa)

**Including:** Barley, Buckwheat, Blue Lupine, Field Bean, Field Pea, Maize, Oat, Oilseed Rape, Perennial Ryegrass, Potato, Red Fescue, Rye, Serradella, Smooth-stalked Meadowgrass, Tall Fescue, Triticale, Wheat, White Lupine, White Mustard, Yellow Lupine

## Vegetable Plants (13 taxa)

**Including:** Beetroot, Broad Bean, Brussels Sprouts, Carrot, Cucumber and Gherkin, Dwarf and Climbing French Bean, Onion, Parsley, Pea (Sugar, Wrinkled and Round), Sprouting Broccoli/Calabrese, Tomato

## Fruit Plants (27 taxa)

**Including:** Apple, Black Currant, Blueberry, Plum, Raspberry, Sour Cherry, Strawberry

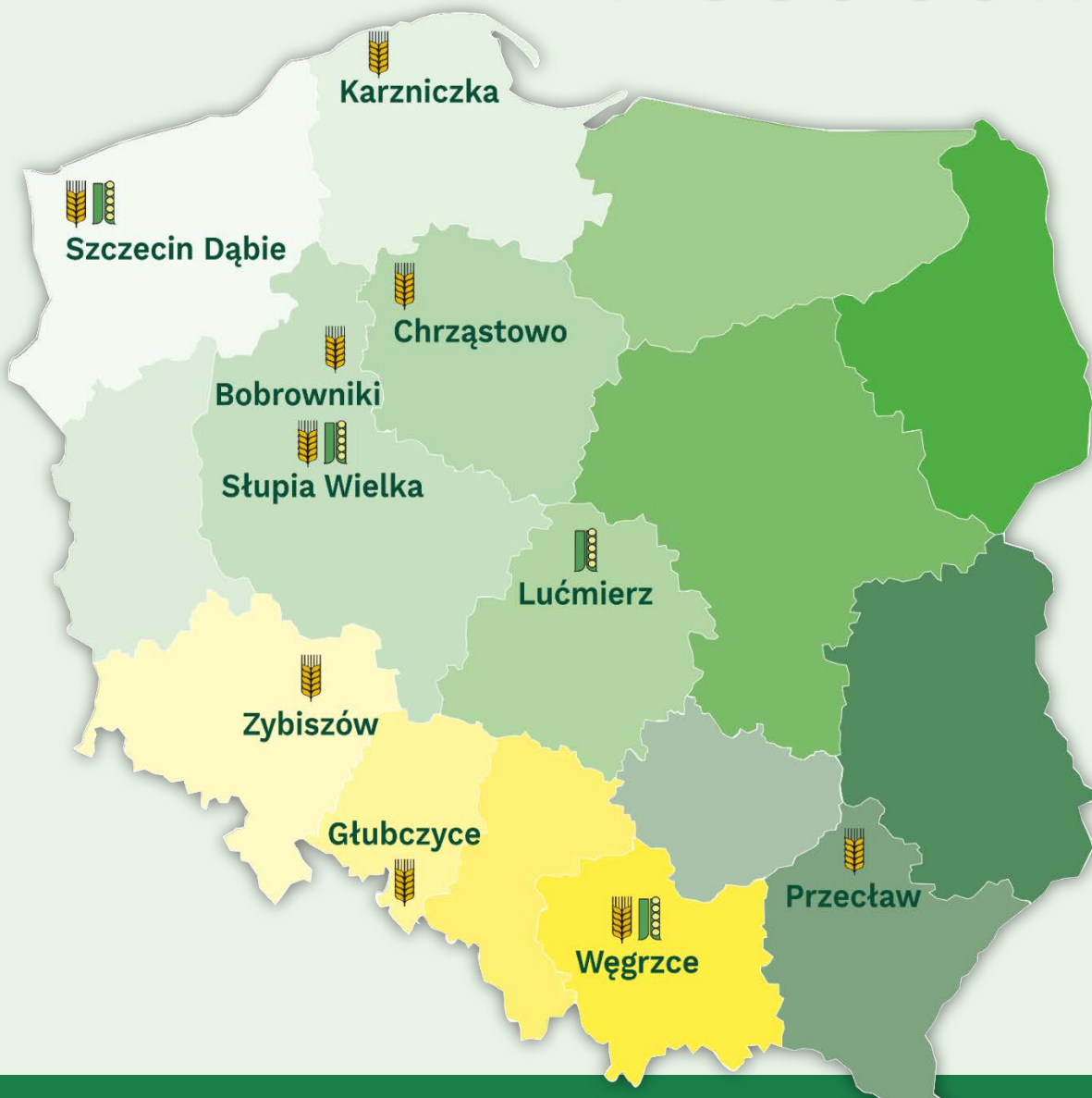
## Ornamental Plants (161 taxa)

**Including:** Bearberry Cotoneaster, Berberis, Birch, Black Pine, Chrysanthemum, Clematis, Colorado Spruce, Echinacea, Elder, Gerbera, Ginkgo, Hinoki Cypress, Juniper, Kobus Magnolia, Larch, Lawson Cypress, Leucothoe, Maple, Nootka Cypress, Norway Spruce, Poinsettia, Rose, Sawara Cypress, Spirea, Thuja, Virginia Creeper, White Spruce, Willow, Yew

The annual meeting of the ESCAA, Krakow, 7-9th May 2025



# Post control tests



## *Organization of tests*

**10 SD00/ZD00**

**(The same SD00/ZD00 in which DUS test are carried out for particular species)**

**Tests for the species:  
at one experimental point**

**Duration:  
one growing season**

# Post control tests. 2024

Group of species	Number of samples	
	samples	variety standard samples
Winter cereals	1046	254
Spring cereals	439	134
Maize	117	58
Pulses	371	100
Leguminous	53	16
Grasses	154	53
Oil, Fibre and special species	8	5
Oil, Fibre and special spring species	92	24
Other agricultural species	43	19
Vegetables	61	56
Total in 2024	2384	719
Total in 2023	2471	725
Total in 2022	2313	786

The annual meeting of the ESCAA, Krakow, 7-9th May 2025







# VCU Assessment

**V** – Value for

**C** – Cultivation

**U** – and Use

## in Poland

# Integration of official variety testing system with system of PDO in Poland

**Official registration tests  
(DUS, VCU)**  
*(2-3 years)*

**Variety Listing (NLI)**

**Post-registration variety testing  
system (PDO)**  
*(minimum 2 years)*

**Variety Recommendation (RL)**

**Variety Listing in other MS**

**EU Common Catalogue of  
Varieties of Agricultural Plant  
Species (CCA)**

**EU Varieties „Recognition  
trials”** *(minimum 2 years)*



# The methodology of official VCU assessment <sup>(1)</sup>

## Basic parameters of field trials :

- Number of field trials: 4-14
- ✓ Number of tested factors:
  - Barley, wheat, triticale, rye – *2 (agrotechnical levels, varieties)*
  - Edible potato - v. early varieties – *2 series (two harvesting dates, varieties)*
  - Other species – *1 (varieties)*
- ✓ Number of replications:
  - Barley, wheat, triticale, rye – *2 replications*
  - Others – *3 replications*
- ✓ Plot size – *10-16,5 m<sup>2</sup> (for harvesting)*
- ✓ Randomization:
  - Randomized block design (< 16 varieties)
  - Incomplete block design - alpha design (≥ 16 varieties)
  - **Grouping of objects** (some pulses and soybeans)
- ✓ Number of reference varieties:
  - **3-4 varieties;**
  - or in case of combined experiments (official +PDO):
    - **all tested from NLI**
    - **or selected from NLI**
    - **or all from PDO (NLI+CCA)**



# Special experiments

## ➤ Cereals:

- winter hardiness (box, embankment, field)
- frostresistance (cold chamber)
- reaction to low soil pH
- grain sprouting in the ear

## ➤ Sugar beet:

- resistance to **beet weevil** (*Cercospora eticola*)

## ➤ Potato:

- resistance of varieties to potato blight
- resistance to Y virus (IHAR-PIB Radzików Młochów Division)



# Laboratory analysis

- Baking value of Wheat, Rye and Triticale varieties
- Technological value of Durum Wheat varieties for pasta
- Malting value of Barley varieties
- Consumption value of table Potato varieties and for the production of French fries and chips
- Technological value of Sugar Beet varieties
- Technological value of Flax and Hemp varieties
- Nutrient contents (*protein, fat, fatty acids, sugars, starch*)
- Content of anti-nutritional components (*glucosinolates, alkaloids, tannins, nitrates - vegetables, etc.*)
- Content of other components (*fibre, cellulose, morphine, THC, CBD, essential oils*)
- Density of grain (*cereals, corn for grain*)
- Digestibility and net lactation energy NEL (*leguminous and grasses*)
- Fibre fractions: NDF and ADF (minor seed and panicle crops)Seed saturation (*Pea*)
- Electrophoresis tests (*Wheat, Triticale, Barley and Oat varieties*)- DUS complementary testing





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

Species	2015/ 2016	2016/ 2017	2017/ 2018	2018/ 2019	2019/ 2020	2020/ 2021	2021/ 2022	2022/ 2023	2023/ 2024	2024/ 2025
Total	552	501	583	596	609	613	602	626	609	661
Winter Barley	43	32	35	41	30	39	30	24	31	35
Winter Wheat + Durum + Spelt	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	90+0+0
Winter Rye	23	22	18	24	25	24	23	28	29	35
Winter Triticale	20	22	21	23	28	24	27	24	29	31
Spring Barley	31	32	37	33	34	44	31	27	23	30
Spring Wheat + Durum	20+1	13+0	19+0	29+0	27+0	25+0	24	22+0+0	19+0+0	23+0+0
Spring Triticale + Rye	7+0	3+3	7+1	2+2	5+4	3+3	6+2	8+0	5+4	7+3
Oat: Spring + Winter	20+1	10+1	20+1	14+1	17+0	21+0	16+0	18+2	14+1	15+4
Maize	73	85	104	117	132	116	132	129	125	136
Winter Oilseed Rape	104	89	100	94	96	90	82	77	93	96
Sugar Beet	57	60	61	62	61	59	60	78	62	60
Potato	19	15	22	26	13	18	21	19	16	23
Legumes + Soya Bean	19	19	25	25	22	29	32	40	18 +2oz+16	25 +3oz+25
Herbage Legumes	0	5	5	2	4	4	6	6	1	2
Grasses (Fodder)	6	0	10	1	7	11	14	14	18	8
Other species	7	8	9	7	10	15	8	23	8	10

*Other: 2025 – Spring Oilseed Rape (9), White Mustard (1)*

*2024 – Spring Oilseed Rape (3), Flax (1), Fodder Beet (4),*

*2023 - Spring Oilseed Rape (7), Oilseed Radish (4), Blue Phacelia (3), sunflower (3), Fodder Beet (2), White Mustard (2), flax (2)*

**The annual meeting of the ESCAA, Krakow, 7-9th May 2025**





# **Post-registration variety testing system (PDO)**

## **and variety recommendation**

**The annual meeting of the ESCAA, Krakow, 7-9th May 2025**



# Legal basis of PDO activities (1)

DIRECTLY

Seed Act of 9 November 2012 (*OJ of 2021, item 129*) – art. 27)

## Art. 27

1. The Research Centre, in **cooperation** with the voivodeship self-governments and with agricultural chambers, shall conduct the Post-registration variety testing, for important from the economic point of view plant species within the territory of the voivodeship, with varieties included in the National Register or in The Common Catalogue.
2. Post-registration variety testing shall be **conducted according to the methods** and procedures elaborated by Director General of the Research Centre.
3. The **methods and procedures**, referred to in paragraph 2, Director General of the Research Centre **elaborates in consultation** with the minister competent for agriculture.
4. For varieties of plant species included in the Post-registration variety testing, **variety descriptive lists shall be produced**.
5. **On the basis** of the results of the Post-registration variety testing, The Research Centre in consultation with voivodeship self-government and the agricultural chamber shall determine a list of **varieties recommended for cultivation** within the territory of the voivodeship.



# Organization of PDO testing system

**National PDO Coordinator  
COBORU Director General**

*Entities directly responsible  
for PDO management*

*Consultative bodies*

*Central  
level*

**The Research Centre for Cultivar  
Testing in Słupia Wielka**

**The National PDO  
Coordination Council**

*Regional  
level*

**The Experimental Station  
for Cultivar Testing  
and other experimental units  
in the voivodeship**

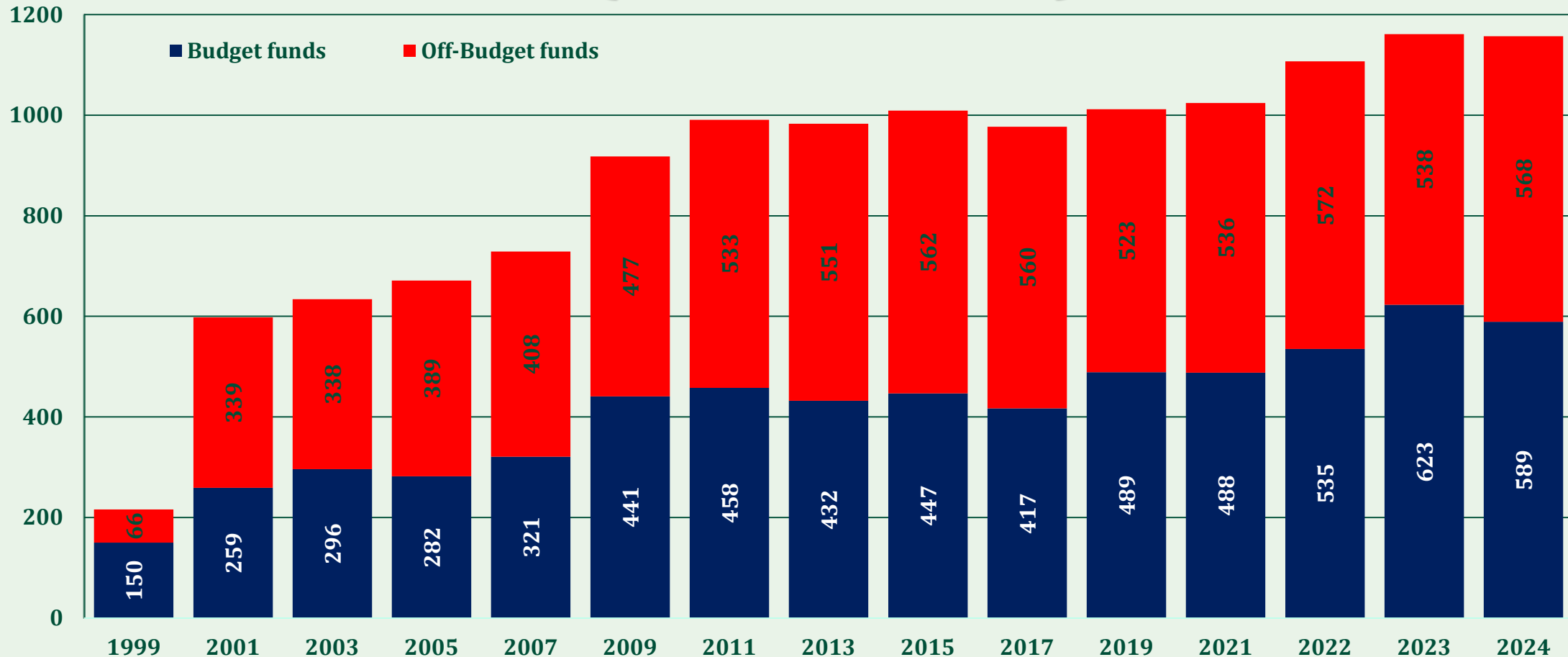
**The Voivodeship PDO  
Council**



# Some methodological aspects of PDO trials

- **GUIDELINES**: all trials are carried out in compliance with COBORU methodology and guidelines
- **STANDARD VARIETIES**: in all trials the same standard varieties defined by COBORU are used (mostly 3-4 varieties per species)
- **TESTED VARIETIES**: all newly listed and the „best” varieties from National List (NLI) and some varieties from CCA tested in „EU Recognition trials”
- **SEED MATERIAL**: seed material of each variety for all experiments originates from one source (supplied by breeders or taken from commercial seed lots); it is ordered by COBORU and distributed to experimental sites by SDOO in Slupia Wielka
- **MONITORING/SUPERVISION**: all experiments are obligatorily monitored by local COBORU inspectors (obligatory three times per season) and by COBORU technical staff
- **TRIAL ACCESS**: trials can also be visited by applicants, maintainers or breeders, members of National and Voivodeship PDO Councils, advisers, farmers and other variety users

# Number of PDO trials (1999 – 2024)



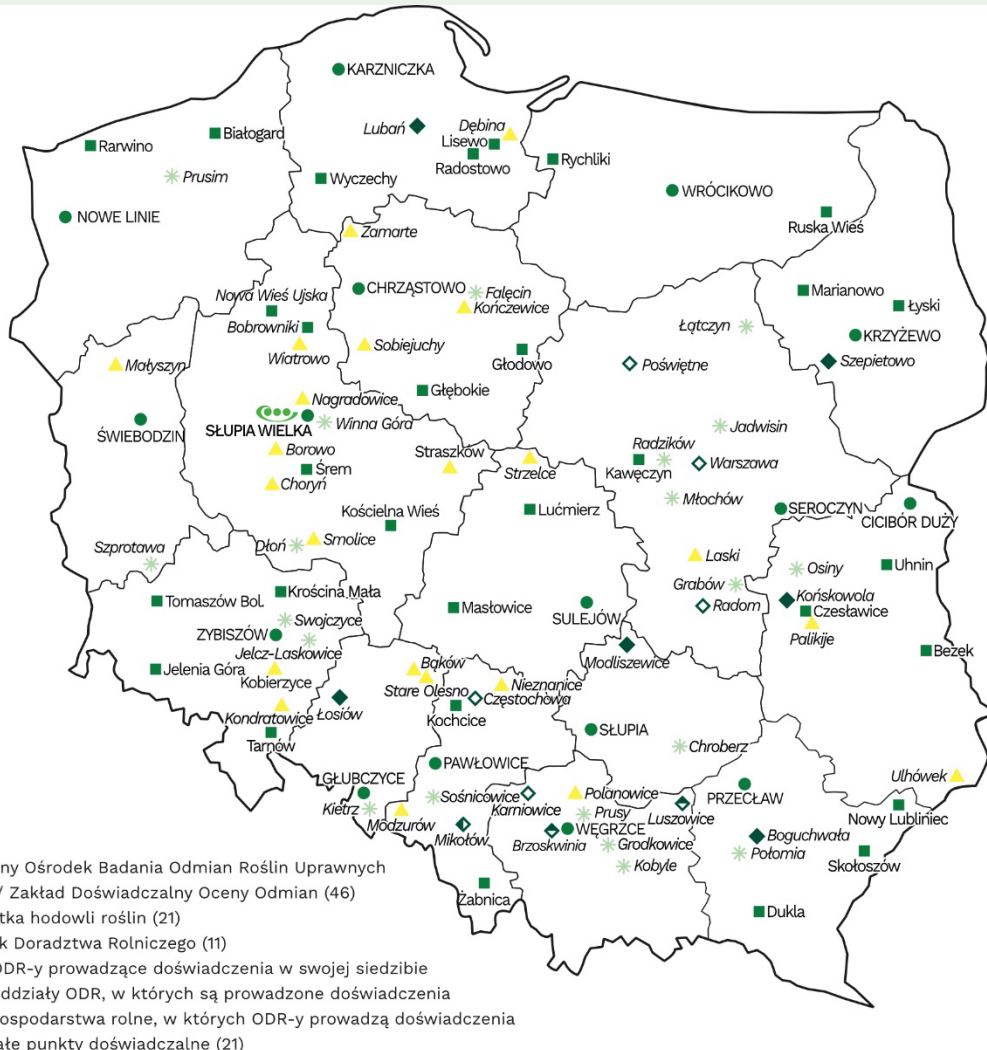
*In 2024, in PDO system we carried out 1157 field trials, in which we tested 734 varieties of the most important species, mainly agricultural*

**The annual meeting of the ESCAA, Krakow, 7-9th May 2025**





# PD0 experimental network in Poland. 2023



## 99 Experimental sites

- - COBORU Experimental Stations (46)
- ▲ - Breeding and seed companies stations (21)
- - Agricultural Advisory Centers (11) and their Experimental Points (◇)
- ✱ - Experimental units belonging to other institutions (21)



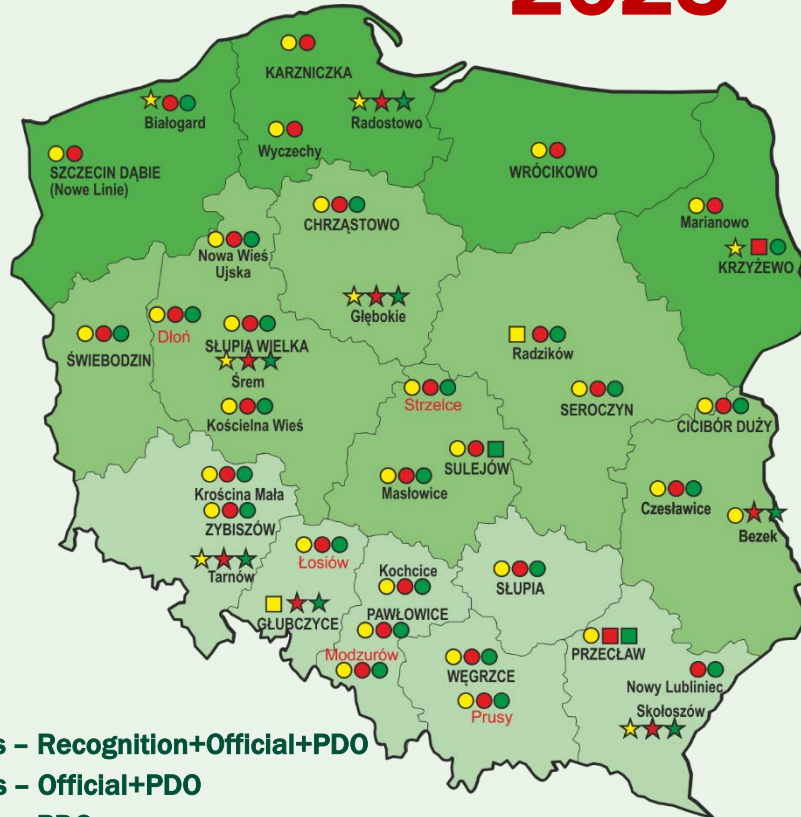
# „The Protein Initiative of COBORU”<sup>(1)</sup>

*(since 2017)*

- **Main objective** - to support efforts to increase the area under protein crops and consequently reduce the country's dependence on GMO Soya Bean
- **Aims of the program:**
  - regular verification of the suitability of all regions of the country for the cultivation of pulses varieties (*Field Bean, Field Pea, Narrow-leaved Lupine, Yellow Lupine*) and Soya Bean
  - creation of a recommendation system of varieties in those species at the voivodeship level by determining the suitability of pulses and Soya Bean varieties for cultivation, including:
    - ☞ identifying their yielding and its stability
    - ☞ identifying of earliness and adaptability of varieties in different cultivation regions, especially Soya Bean varieties
    - ☞ identifying of tolerance of varieties to biotic stresses (diseases, pests etc.) and abiotic stresses (drought and other extreme environmental conditions)

# Trials location with Soya Bean varieties

**2025**



- ★ - Early varieties – Recognition+Official+PDO
- - Early varieties – Official+PDO
- - Early varieties – PDO
- ★ - Medium-early varieties – Recognition+Official+PDO
- - Medium-early varieties – Official+PDO
- - Medium-early varieties – PDO
- ★ - Medium-late varieties – Recognition+Official+PDO
- - Medium-late varieties – Official+PDO
- - Medium-late varieties – PDO

**2016**



**2016**

- **Number of trials – 21**
- **Number of varieties – 21** (13 Bo + 6 KR + 2 CCA)

**2025**

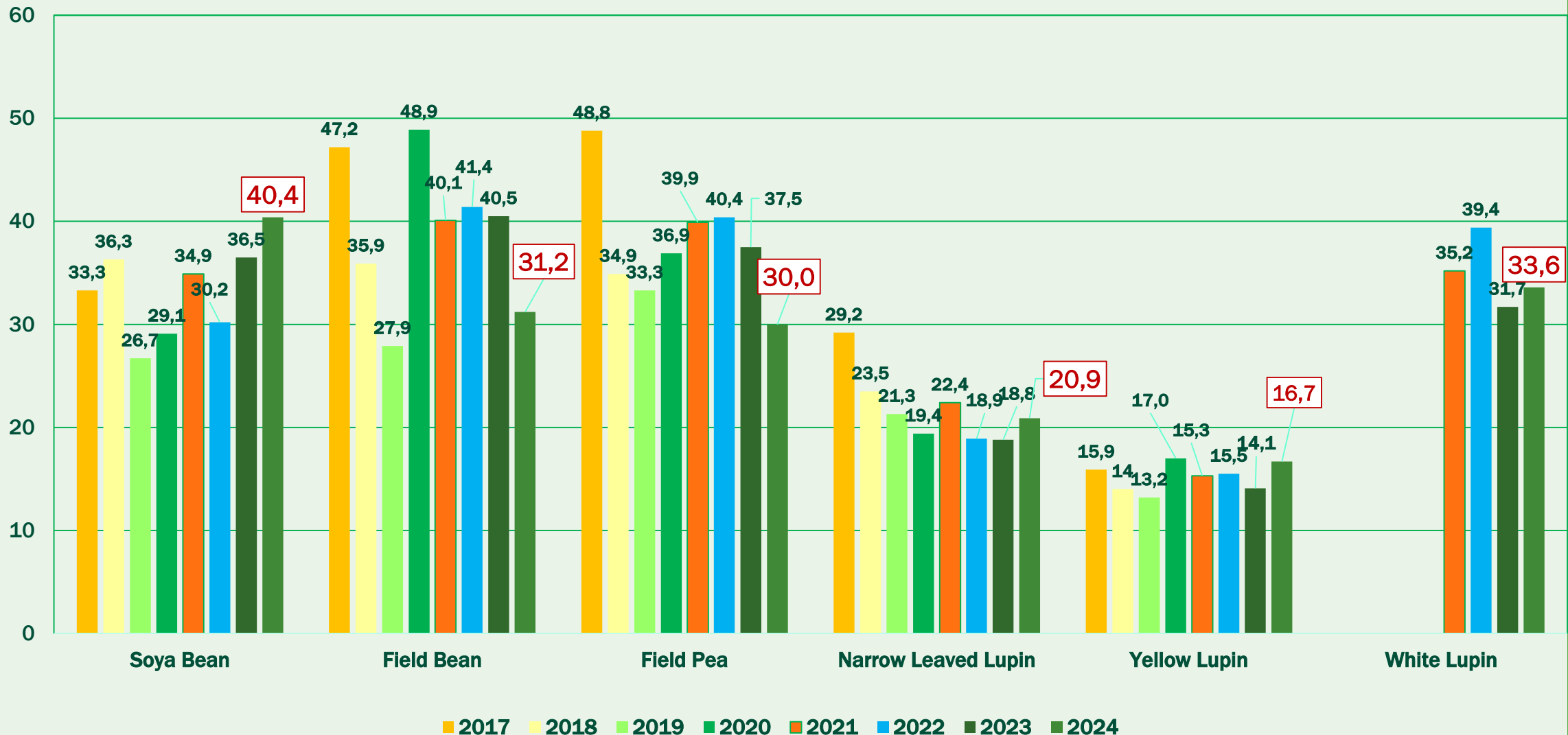
- **Number of trials – 113** (36, 37, 32 + 11 spec.)
- **Number of varieties – 88** (33 Bo + 24 KR + 13 CCA<sub>PDO</sub> + 14 CCA<sub>Roz</sub>)

The annual meeting of the ESCAA, Krakow, 7-9th May 2025



# Protein Initiative of COBORU

Average yields of protein crop varieties (dt/ha) 2017-2023



The annual meeting of the ESCAA, Krakow, 7-9th May 2025



# Variety testing for organic farming in COBORU



**Location of COBORU's own experimental stations conducting varietal trials under the organic farming regime**



# Variety testing for organic farming in COBORU

## Test guidelines



The annual meeting of the ESCAA, Krakow, 7-9th May 2025





# Variety testing for organic farming in COBORU

**Number of trials in 2023/2024 season**

Lp.	Species	Number of trials	Number of tested varieties
1	Winter Barley	5 (5)	6
2	Spring Barley	10 (5)	11-25
3	Oat	10 (6)	8-15
4	Spring Spelt Wheat	5 (5)	2
5	Winter Spelt Wheat	5 (5)	5
6	Spring Wheat	8 (5)	11
7	Winter Wheat	9 (6)	16
8	Winter Triticale	11 (6)	11-21
9	Winter Rye	10 (6)	12-28
10	Buckwheat	5 (5)	4
11	Field Pea	5 (5)	6
12	Narrow-leaved Lupine	10 (5)	11-25
13	Yellow Lupine	10 (6)	8-15
14	Soya Bean	5 (5)	2
15	Silage Maize	5 (5)	5
16	Grain Maize	8 (5)	11
17	Potato (three maturity groups)	9 (6)	16
18	Oil Flax	1(1)	3
19	Camelina	1(1)	2
20	Red Beet	1(1)	5
21	Carrot	1(1)	5
<b>Total</b>		<b>139 (102)</b>	<b>225</b>

(...) - Number of trial in SD00/ZD00

**The annual meeting of the ESCAA, Krakow, 7-9th May 2025**



# Financing of PDO activities

- 👤 **State budget (via COBORU)**
- 👤 **Voivodeship Self-governments**
- 👤 **Agricultural Chambers**
- 👤 **Breeding Stations, Seed Companies and Agricultural Advisory Entities**
- 👤 **Sugar Beet industry**
- 👤 **Polish Union of Maize Producers**
- 👤 **COBORU own resources from agricultural activity**
- 👤 **Others (*producers of fertilizers and plant protection products and other agricultural organizations and unions, etc.*)**

# Lists of varieties recommended for cultivation within the territory of the voivodeship

- The Lists ... are produced separately in each voivodeship and final decisions are taken by directors of Coordination Stations after opinion by **the relevant Voivodeship PDO Council**
- Varieties tested in PDO trials at least for two years can be recommended only
- Crops covered with recommendation:
  - (Cereals, Winter and Spring Oilseed Rape, Table Potato, Maize, Legumes)
- The Lists ... are published regionally and additionally on the COBORU website



# Lists of varieties recommended for cultivation within the territory of the voivodeships in 2025

Voivodeship	Winter Wheat	Winter Barley	Winter Triticale	Winter Rye	Spring Wheat	Spring Barley	Oat	Spring Triticale	Spring rye	Maize (grain)	Maize (silage)	Winter Oilseed Rape	Spring Oilseed Rape	Potato	Field Bean	Field Pea	White Lupin	Narrow Leaved Lupin	Yellow Lupin	Soya Bean	No. Species recommended in voivodeship
dolnośląskie	9	10	6	10	6	8	8	3		15		11		10	4	8		7	3	9	16
kujawsko-pomorskie	14	8	7	11	7	8	5	4		17	14	14	3	16	6	10		8	4	13	18
lubelskie	12	8	8	7	6	9	5			6		8		14	5	8	2	4	3	12	16
lubuskie	12	7	6	9	7	10	6	4		15		12				6		8	3	14	14
łódzkie	10	11	11	13	9	11	5	5	1	14	12	21		14	5	9		10	3	11	18
małopolskie	9	5	6	5	7	7	8			5				19	4	5		5	2	8	14
mazowieckie	14	8	7	11	6	11	8	4		21	7	14			5	9		7	3	11	16
opolskie	12	7	8	9	5	10	5			9		12		12	6	8				12	13
podkarpackie	10	6	5	7	6	6	6			7		8	3	4	3	6		6	2	12	16
podlaskie	14	9	5	13	7	8	6	5	3	14	12	8			6	9		6	2	8	17
pomorskie	14	5	4	5	5	5	3	4		5	8	12		9	4	7		6	2	3	17
śląskie	17	9	11	10	10	12	8	5		20		19		11	6	9		9	3	12	16
świętokrzyskie	6	6	6	7	8	9	6					12		15	6	7	2	5	3	8	15
warmińsko-mazurskie	15	4	5	8	8	11	4			11		15		10	6	6		5	3	5	15
wielkopolskie	13	8	6	7	7	8	7			11	9	10		12		7		4	3	9	15
zachodniopomorskie	12	5	7	10	6	5	4	5		6		16		23	8	9		4	3	7	16
No. varieties recommended within the species in all	51	24	16	30	24	35	19	11	3	40	23	39	4	30	11	21	2	15	5	27	430
No. Voivodeships with recommended lists	16	16	16	16	16	16	16	9	2	15	6	15	2	12	14	16	2	15	15	16	252

The annual meeting of the ESCAA, Krakow, 7-9th May 2025



# VCU assessment for Variety Descriptive Lists purposes

## Testing network



### VCU assessment for Variety Descriptive Lists:

- Vegetable Plants:  
16 – SD00/ZD00

- Fruit Plants:  
6 – SD00/ZD00  
1 – IO Skierniewice

# VCU assessment for Variety Descriptive Lists puposes

*(17 species of vegetable and 8 species of fruit plants)*

*The aim of this post-registration VCU examination is to prepare the Descriptive Lists which contain information about value for cultivation and use of vegetable and fruit plant varieties inscribed into the Polish National List (NLI)*

Vegetables	No. of trials	No. of tested varieties
French Bean	6	8
White Cabbage	6	7
Carrot	6	12
Cucumber	18 (6)	11
Pepper	15	17
Lettuce	6	13
Tomato	6	10
Broad beans	6	8
Total in 2024	69 (6)	86
Total in 2023	78 (12)	111
Total in 2022	72 (12)	102

Fruits	No. of trials	No. of tested varieties
Apple	2	12
Black Currant	4	13
Strawberry	4	6
Total in 2024	10	31
Total in 2023	20	46
Total in 2022	32	46

*(...) – including special tests (storage, pickling of cucumbers)*





# Training and dissemination activities of COBORU. 2024

- COBORU specialists gave **163 lectures and talks** at various conferences, seminars, trainings (86 - COBORU Headquarters staff, 77 - SD00/ZD00 staff)
- SD00s on their own territory organized, either independently or in cooperation with other units, **248 events** such as: field days, open days, training courses, workshops or received tours of farmers, students, schoolchildren, etc. Nearly 18,000 people visited the SD00 grounds during these events
- COBORU, and mainly SD00/ZD00 actively participated in **75 different types of fairs, exhibitions, harvest festivals**, etc., organized outside the SD00 area, which were attended by several hundred thousand visitors



# *The Experimental Station for Cultivar Testing in Węgrzce*



## *SDOO Węgrzce*

- **established in 1952** year in Ściborzyce, relocated in 1956 year to Węgrzce
- location – 4 km north-west of Kraków,
- altitude 285 m
- average **annual temperature: 7.90 °C**
- average **annual precipitation: 650 mm**
- total **area of SDOO – 75.2 ha** (*including 66,0 ha of arable land*)
- **area under trials: 16 ha**
- **class of soil:** I – IIIb, mainly IIb (good and very good wheat and beet soil quality)
- **average employment: 14 persons**, including 4 examiners of professional staff, with high qualifications, dealing with experiments

# ***The Experimental Station for Cultivar Testing in Węgrzce***

## ***Distinctness, Uniformity and Stability Tests (DUS)***

- Garlic
- Chives
- Leek
- Welsh Onion
- Cucumber, Gherkin
- Parsnip
- Beetroot
- Winter Pea
- Field Pea
- Sugar Pea
- Wrinkled Pea
- Melon





# ***The Experimental Station for Cultivar Testing in Węgrzce***

## ***Post-Control Tests (varietal identity and purity tests of seed material):***

- Beetroot
- Cucumber, Gherkin
- Welsh Onion
- Field Pea
- Wrinkled Pea
- Chives





# ***The Experimental Station for Cultivar Testing in Węgrzce***

***Trials for the Variety Descriptive Lists (LOO) of vegetable plants :***

- **French Bean**
- **Red Cabbage**
- **White Cabbage**
- **Pepper**





# ***The Experimental Station for Cultivar Testing in Węgrzce***

## ***Official Value for Cultivation and Use Trials (VCU) :***

- Winter Wheat
- Winter Barley
- Spelt Wheat
- Winter Oilseed Rape
- Fodder Beet
- Maize
- Potato



# ***The Experimental Station for Cultivar Testing in Węgrzce***

## ***Post-registration variety testing system (PDO):***

- Winter Wheat
- Winter Barley
- Triticale
- Winter Spelt Wheat
- Spring Wheat
- Spring Barley
- Spring Oat
- Maize
- Potato
- Field Bean
- Field Pea
- Narrow Leaved Lupine
- Soya Bean



# ***The Experimental Station for Cultivar Testing in Węgrzce***

## **Organic trials - 9 trials financed from budgetary sources:**

Winter Barley

Spring Wheat

Winter Wheat

Spring Spelt Wheat

Winter Spelt Wheat

Soya Bean

Spring Barley

Potato

## **Organic trials - 6 trials financed from non-budgetary sources:**

Triticale

Sunflower

Winter Rye

Potato

Oats

Flax



# ***The Experimental Station for Cultivar Testing in Węgrzce***

## **Agricultural production:**

- **Winter Wheat – 24 ha**
- **Winter Oilseed Rape – 10 ha**
- **Maize – 7,0 ha**
- **Sugar Beet – 6,0 ha**



To stimulate innovation in plant breeding and seed production and to support implementation of plant variety progress into agriculture



## CONTACTS



**Thank you for your attention**



**The annual meeting of the ESCAA, Krakow, 7-9th May 2025**

