



National Collection of Plant Genetic Resources of the Republic of Belarus

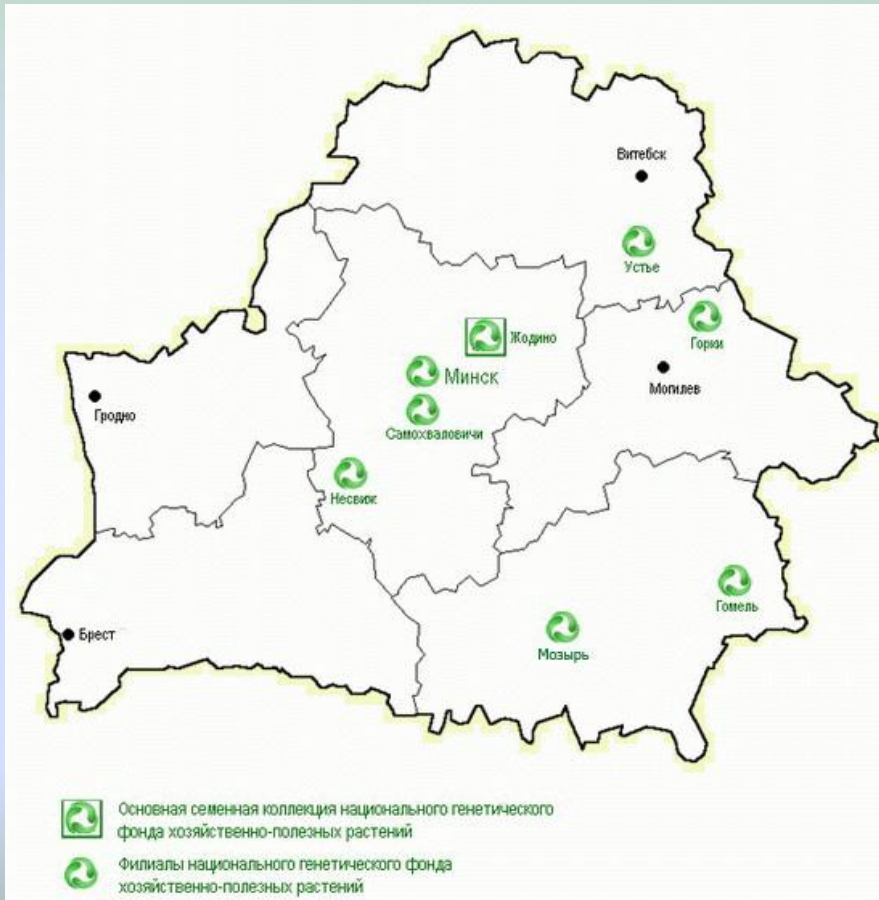
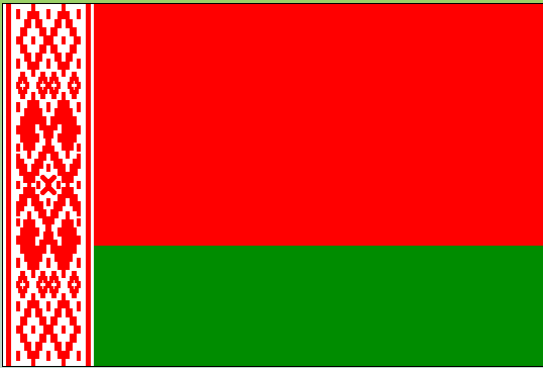
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Research and Practical Center of the National Academy of Sciences of Belarus for Arable Farming



- Collection of plant genetic resources totaling 67600 accessions was formed for 2000-2017 in the Republic of Belarus;

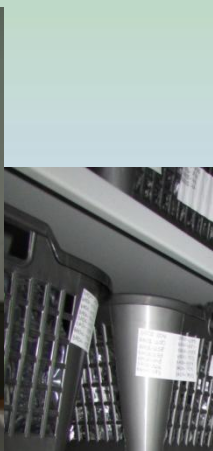
- On the basis of the National Collection of plant genetic resources 980 varieties of crops were created in the Republic of Belarus in 2000-2017;

- Using the collection of forest crops 30000 hectares of forest have been restored (40%);

- Preserved are 52 rare wild species of plants included in the Red List of the Republic of Belarus.



The National Bank of Plant Genetic Resources of Belarus (Gene bank)



Conservation

Dry seeds

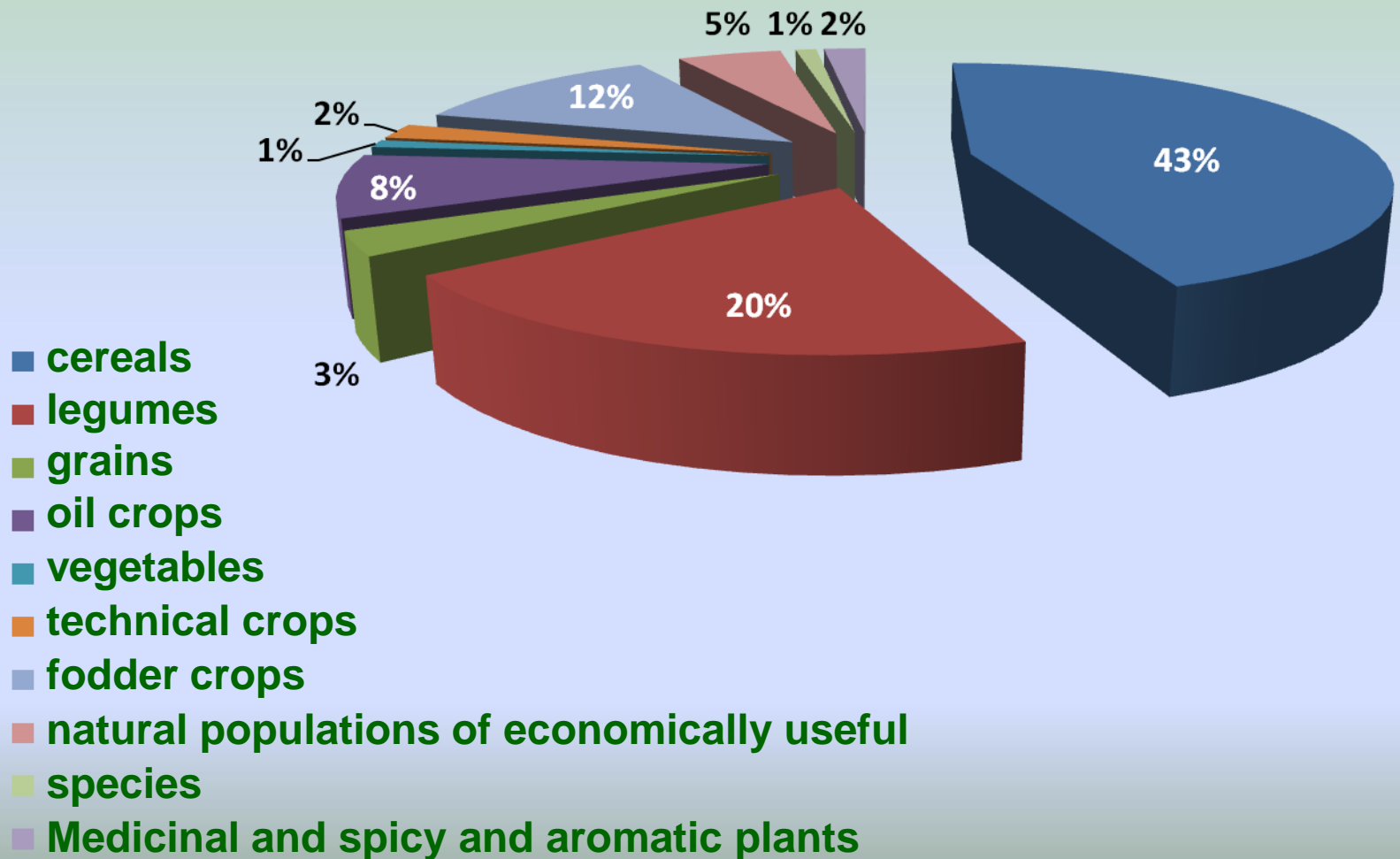
Mid-term conservation at $0+3^{\circ}\text{C}$

Long term conservation at $-18-24^{\circ}\text{C}$



ex situ collection

ex situ collection includes more than 28 000 accessions from 47 crops, 10 families, 46 genera, 154 species, 393 subspecies

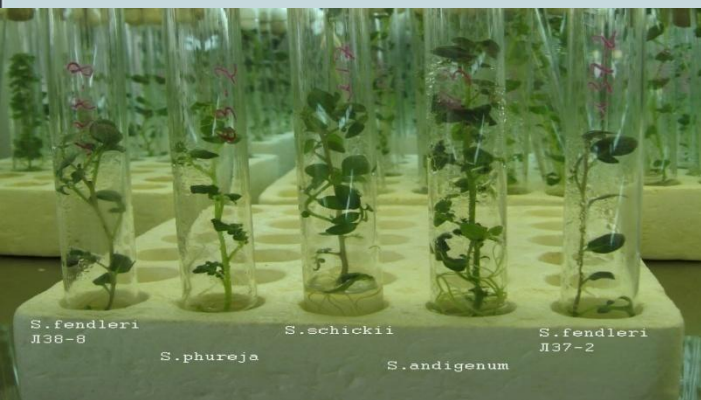


Collection *in situ* of horticultural crops, berry crops, nut crops and grape includes 5166 accessions of 34 crops and 110 species.



***IN VITRO* Collection (1828 accessions)**

- 1. Core collection of Belarusian potato varieties**
- 2. Species and interspecies hybrids
*Solanum***
- 3. Collection of varieties of the world gene pool of potato**
- 4. Collection of wild and primitive species**





Collection of plant genetic resources of wild relatives and natural populations of economically useful plants includes 850 accessions. 14 of them are included in the List of endangered species

Collection	Families	Genera	Species	Accessions
Rare and Endangered Species of the Belarusian Natural Flora	44	109	141	191
Herbaceous ornamental plants	106	375	906	5383
Economically useful herbaceous plants	65	230	468	646
Xylophytes	71	227	1630	4199
Greenhouse plant collections, including	167	726	1868	2668
TOTAL	264	1441	4858	13087



Collection of forest crops

- *ex situ* collection
- *in situ* collection
- DNA collection



Total 12330 accessions, including

Pinus Sylvestris (Scotch pine),

Picea excelsa (Norway spruce),

Quercus pedunculata (English oak),

European white birch

National Heritage of the Republic of Belarus

- Seed collections of field crops of the Research and Practical Centre for Arable Farming ;
- Collections of fruit and berry crops, nut crops and vine of the Institute of Fruit Growing;
- Genetic collections of the Institute of Genetics and Cytology;
- Collections and herbarium of the Botanic Garden;
- Collections of fungus strains of the Institute of Forest;
- Herbarium of the nature flora of the Institute of Experimental Botany



Participation in the international network of plant genetic resources



Collaboration with Bioversity International



Collaboration with international centers conducting agricultural research



Collaboration with the genebanks of 42 countries



Belarus has joined the AEGIS, ECPGR





РЭТ НАУЧНО-СПОРТИВНОГО ЦЕНТРА ИМ. ВАСИЛИСА КОСОВОГО

Thank you for your attention