

STATUS OF NATIONAL GRAIN LEGUME COLLECTION

- Changes, Prosperity & Perspectives-

Suzana Kratovalieva, Genebank Manager

University Ss.Cyril and Methodius in Skopje, Agricultural Institute-Skopje Republic of Macedonia

Activities 2007-2013

Grain Legume WG:

- Collecting expeditions,
- Mapping,
- Ex situ long term preservation,
- Documentation of collected species(DB)







Collecting expeditions:













39 collecting expeditions (2008-2013) in total

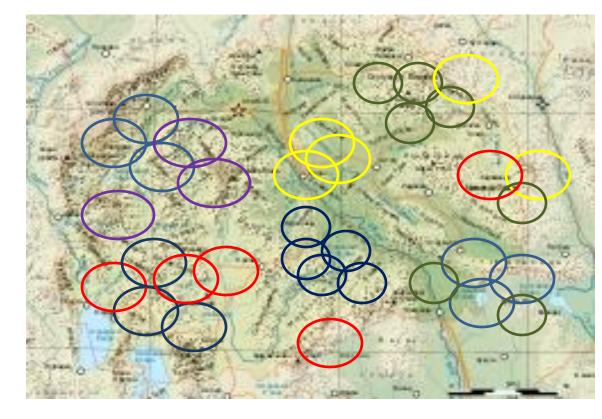












2007, **Lisbon**

2013, Novi Sad

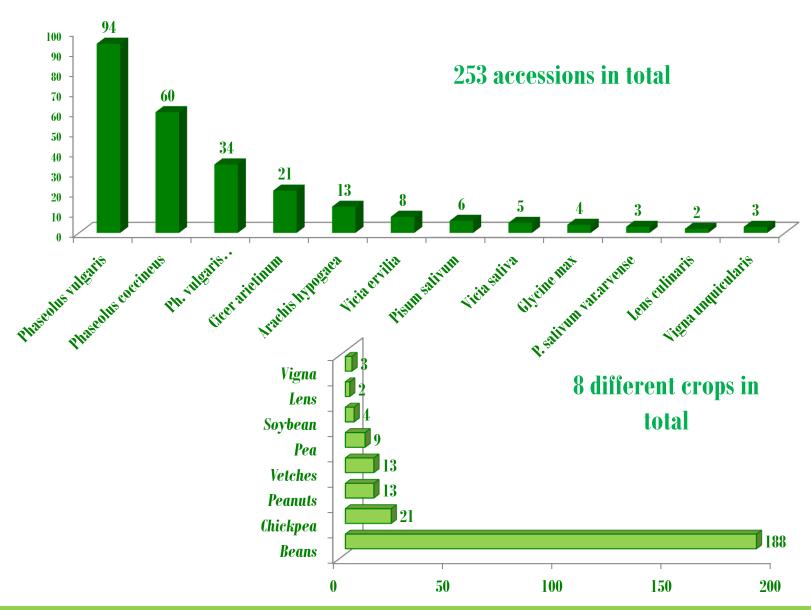
Collection comprises 49 accession

- *Trifolium* spp. () 81.63%
- *Vicia* spp. () 10.20%
- *Medicago* () 2.04%
- *Onobrychis* spp. () 2.04%
- *Pisum* spp. () 2.04%
- *Cicer* spp. () 2.04%

Collection comprises 253 accession

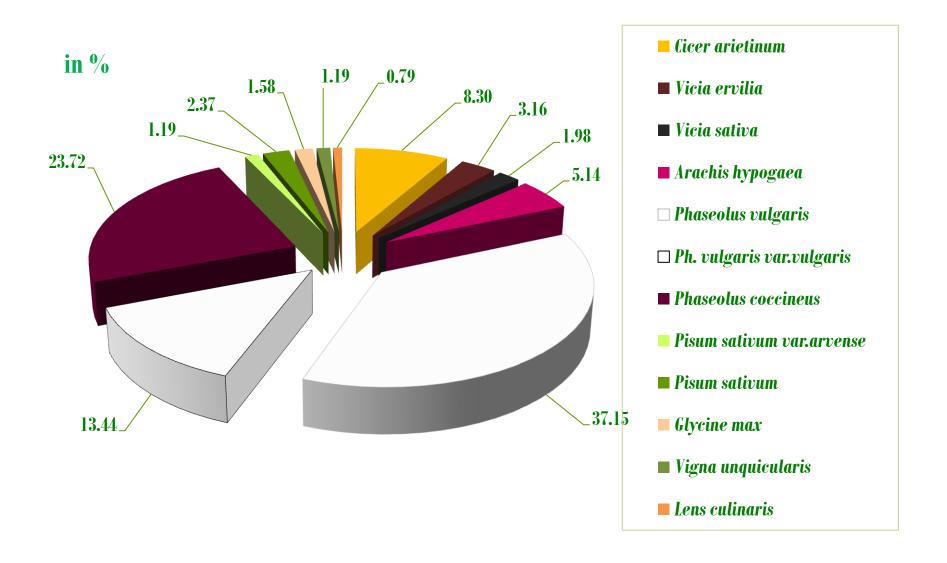
- Phaseolus vulgaris (94) 37.15%
- Phaseolus coccineus (60) 23.72%
- Phaseolus vulgaris var.vulgaris (34) 13.44%
- *Cicer arietinum* (21) 8.30%
- Arachis hypogaea (13) 5.14%
- Vicia ervilia (8) 3.16%
- Pisum sativum (6) 2.37%
- Vicia sativa (5) 1.98%
- *Glycine max* (4) 1.58%
- Pisum sativum var.arvense (3) 1.19%
- *Lens culinaris* (2) 0.79%
- Vigna unguicularis (3) 1.19%

Overview of GL collections



Fifth meeting of the ECPGR Working Group on Grain Legumes 7-8 May 2013, Novi Sad, Serbia

Overview of GL collections



Seed handling

Accordingly GB Manual (drafted 2010) for ex situ long term conservation

- ■All collections at -18°C (base, active, distribution, viability test)
- ■Drying in controlled environment at 17 °C and RH of 22%
- **■**Two-layer aluminium batched (double)
- ■Storage data recorded (T/°C)
- **L**ong term storage conditions (refrigerators) are adequate for 25-30 (50) yrs (depends on species: protein, oil)
- ■50-100 seeds are available on request (collection for distribution)
- ■Safety duplicate (on national level)
- Seed viability monitoring after 3-5 yrs of storage at first, after 7-10 yrs (further) (4 x 50 seeds)









Documentation

- ■Excel DB
- All accessions are supplied with passport data (FAO/IPGRI MCPD)
- ■34 descriptors
- ■DB of quality parameters before

 storage (moisture, germination test)

 ### MAD 15 MAD 15 MAD 16 MAD 16 MAD 17 MAD 18 MA
- **■**DB of characterized accessions
- **■**DB of evaluated accessions

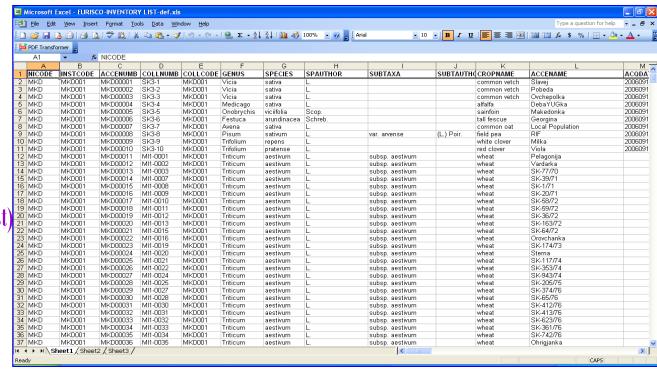


Photo documentation Грав шуто црно и бело Грав шарен с. Злетово Регион ПРОБИШТИП Гујновци Регион ПРОБИШТИП Грав позематник с. Шталковица гион ПРОБИШТИП шарен Леќа кафена с. Калниште Грав пешак шарен с. Калниште Регион ПРОБИШТИП Регион ПРОБИШТИП с. Јамиште Регион ПРОБИШТИП

Fifth meeting of the ECPGR Working Group on Grain Legumes

Соја домашна с. Двориште Регион БЕРОВО

Кикирики колешински с. Колешино Регион СТРУМИЦА

Уров сушно отпорен и

роден с. Долно Барбарево Регион ПРОБИШТИП

с. Бунеш Регион ПРОБИШТИП

с. Пишица Регион ПРОБИШТИП Regards
and
Thanks
to all of you!

