

STATUS OF THE NATIONAL ALLIUM COLLECTION - LATVIA

Līga Lepse

Institute of Horticulture (LatHort)

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Group, 11-12 October 2022, Skierniewice,
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Number of accessions in the LATVIAN collection(s)

Species/Crop	Ex situ	Field	Cryo	Vitro	Total
Garlic (<i>Allium sativum</i> L.)	-	92	-	-	92
Potato onion (<i>Allium sativum</i> var. <i>aggregatum</i> L.)	-	49	-	-	49
Common onion (<i>Allium cepa</i> L.)	1	-	-	-	1
Chive (<i>Allium schoenoprasum</i> L.)	-	-	-	-	-
Leek (<i>Allium porrum</i> L.)	-	-	-	-	-
Spring onion (<i>Allium fistulosum</i> L.)	-	-	-	-	-
Wild Alliums	-	-	-	-	-
TOTAL	1	141			142

Safety duplication percentage

Species/Crop	%
Garlic (<i>Allium sativum</i> L.)	100
Potato onion (<i>Allium sativum</i> var. <i>aggregatum</i> L.)	100
Common onion (<i>Allium cepa</i> L.)	
Chive (<i>Allium schoneoprasum</i> L.)	
Leek (<i>Allium porrum</i> L.)	
Spring onion (<i>Allium fistulosum</i> L.)	
TOTAL	

Comments:
Both collections are duplicated in two campuses of LatHort – Dobeles and Pūre



Structure of the most important collection of garlic and potato onion by country of origin

Garlic		Onion	
Country of origin	Number of accessions	Country of origin	Number of accessions
Latvia	89	Latvia	50
Lithuania	2 (Žiemiai, Dangiai)		
Ukraine	1 (Ljubasha)		

Comments:
In Latvia PGR Programme only accessions of Latvian origin are mandatory to keep in collections

Biology status of the most important collection(s) of garlic and onion and ability to flower (garlic)

Garlic	
Biological status	Number of accessions
Wild	0
Advanced or improved cultivar	3
Breeding/research material	
Traditional cultivar/landrace	89

Onion	
Biological status	Number of accessions
Wild	0
Advanced or improved cultivar	1
Breeding/research material	0
Traditional cultivar/landrace	49

Garlic ability to flower	Number of accessions
Bolting garlic	82
Non bolting	10
Semibolting	

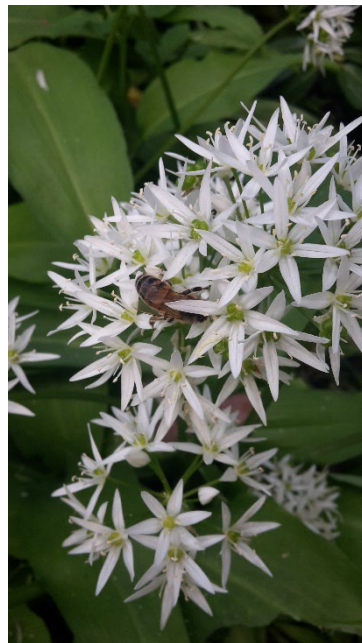
Status of documentation

- Descriptors used: national adapted from UPOV
- Documentation system (software): institutional Excel
- % characterized: 100
- C&E data to EURISCO: yes (need to be updated)
- Pictures available: yes



Acquisitions

- **Any plans to fill gaps:** to establish collection of chives (*A. schoneoprasum* L.) and wild garlic (ramsons) (*A. ursiunum*)
- **Acquisition strategy:** direct collecting, collecting missions



Use of the collection

- Availability of material - 100% available under MTA
- Cooperation with users (farmers): variety registration; producers interest on potato onion processing
- Ongoing projects:
 - Identification, collection and research of the genetic potential of *in situ* cultivated plants for food and agriculture and their wild relatives (national)
 - farmer initiated variety registration for two clones (private)



Main problems

- Field collection maintenance costs are rised, but national financing is fixed for the certain period - until 2023 (including)
- Colection missions for collecting of wild garlics necessary



Proposals for collaborative activities within the Working Group

- Cryopreservation workshops

