



# STATUS OF THE NATIONAL ALLIUM COLLECTION - COUNTRY

Terhi Suojala-Ahlfors

Natural Resources Institute Finland  
(Luke)

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## Number of accessions in the COUNTRY collection(s)

Species/Crop	Ex situ	Field	Cryo	Vitro	Total
Garlic ( <i>Allium sativum</i> L.)		7			
Shallot/ <b>potato onion</b> ( <i>Allium ascalonicum</i> L.)		34	1	9	34
Tree onion ( <i>Allium x proliferum</i> )		10			
Sand leek ( <i>Allium scorodoprasum</i> L.)		1			
<b>TOTAL</b>		52			

## Safety duplication percentage

Species/Crop	%
Garlic ( <i>Allium sativum</i> L.)	0
Shallot/ <b>potato onion</b> ( <i>Allium ascalonicum</i> L.)	41
Tree onion ( <i>Allium x proliferum</i> )	0
Sand leek ( <i>Allium scorodoprasum</i> L.)	0
<b>TOTAL</b>	

Comments:  
14 potato onion  
accessions in safety  
collections in other sites  
than Luke

## Structure of the most important collection (i.e. garlic, etc.) by country of origin

Country of origin	Potato onion, Number of accessions	Country of origin	Tree onion, Number of accessions
Finland	33	Finland	10
Estonia	1		

Comments:

## Biology status of the most important collection(s) [i.e. garlic, etc.] and ability to flower (garlic)

Biological status	Potato onion, Number of accessions
Wild	
Advanced or improved cultivar	2
Breeding/research material	3
Traditional cultivar/landrace	29

Ability to flower	Number of accessions
Bolting garlic	
Non bolting	
Semibolting	

Comments:

# Status of documentation, potato onion

- Descriptors used: IPGRI (Descriptors for Allium) b most of them used
- Documentation system (software): Nordic Baltic Gernebanks Information System (GeNBIS) (partly, data needs to be updated)
- % characterized: ~90 % of potato onions
- C&E data to EURISCO: no
- Pictures available: yes

# Acquisitions

- Any plans to fill gaps: garlics, maybe?
- Acquisition strategy: call to citizens

# Use of the collection

- Availability of material (% available and under what terms – SMTA, MTA):
  - most of the material with SMTA (or hobby-MTA)
  - MTA for propagation material is under development
- Cooperation with users (breeders, NGOs, farmers):
  - material provided on request
- Ongoing projects:
  - Onions to use – promoting the cultivation of potato onion (2020-2022): producing some virus-free propagation material, enhancing the knowledge and use of traditional potato onion



# Main problems

- Field collections are laborious and expensive
- Virus diseases are a threat in field collections
- Potato onions in back-up collections are not always growing very well + problems with winter storage
- *In vitro* culture of onion and developing cryopreservation methods are also time-consuming, thus it has proceeded slowly



# Proposals for collaborative activities within the Working Group

