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Virtual Seed ID Referee 2018 Species of *Linaria* and *Solanum*

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Canada

Objectives of the referee

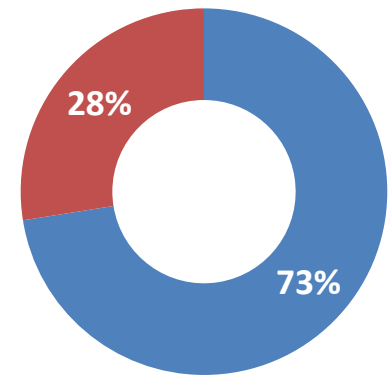
- Obtain knowledge of seed morphology features through identification on provided virtual seeds
- Be able to separate similar species in these two genera through the training referee
- Both genera contain noxious weeds in the regulations of Canadian or USA

Referee phases

1. Conduct the virtual identification (submitted by April 30th, 2018)
2. Review the identification of similar species and genus features using the provided training presentation (provided on May 31st, 2018)

Participation

- Total of 39 analysts participated
- Feedback:
 - Difficult IDs
 - Multiple choice
 - Training session first
 - Good quality of images



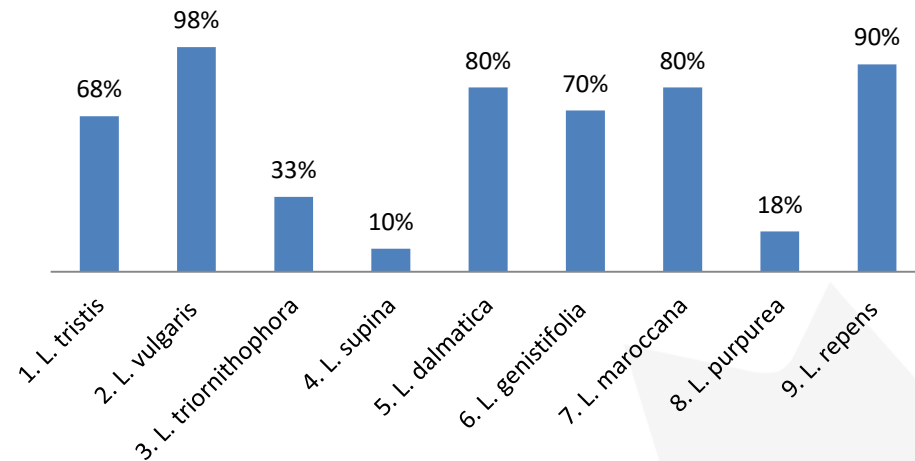
■ Canada ■ USA

More suggestion?

Virtual Identification

- > 90% 2 species
- > 60% 4 species

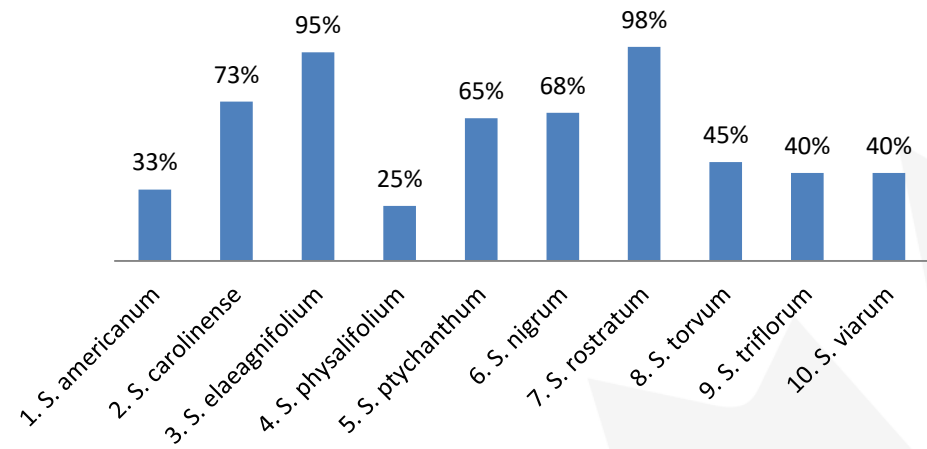
Over all accuracy (%) in *Linaria* species



Virtual Identification

- > 90% 2 species
- > 60% 3 species

Over all accuracy (%) in *Solanum* species

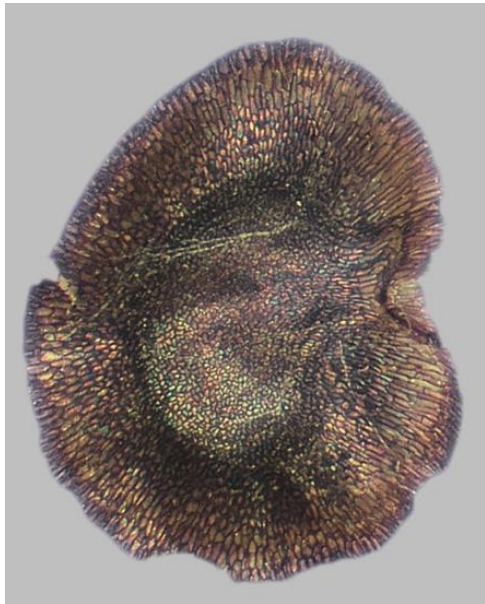


Identification features of *Linaria* species



Virtual ID of *Linaria* species

1. *L. tristis*



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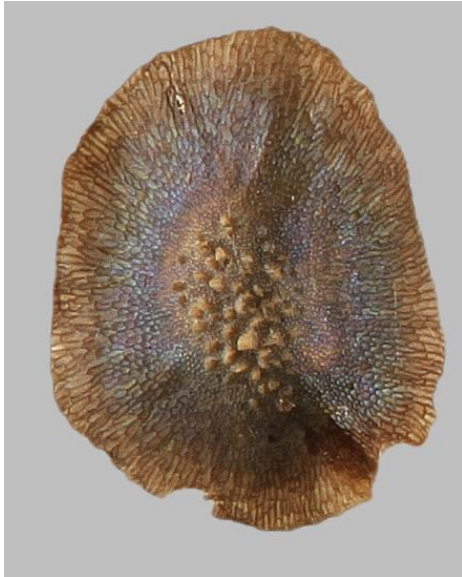


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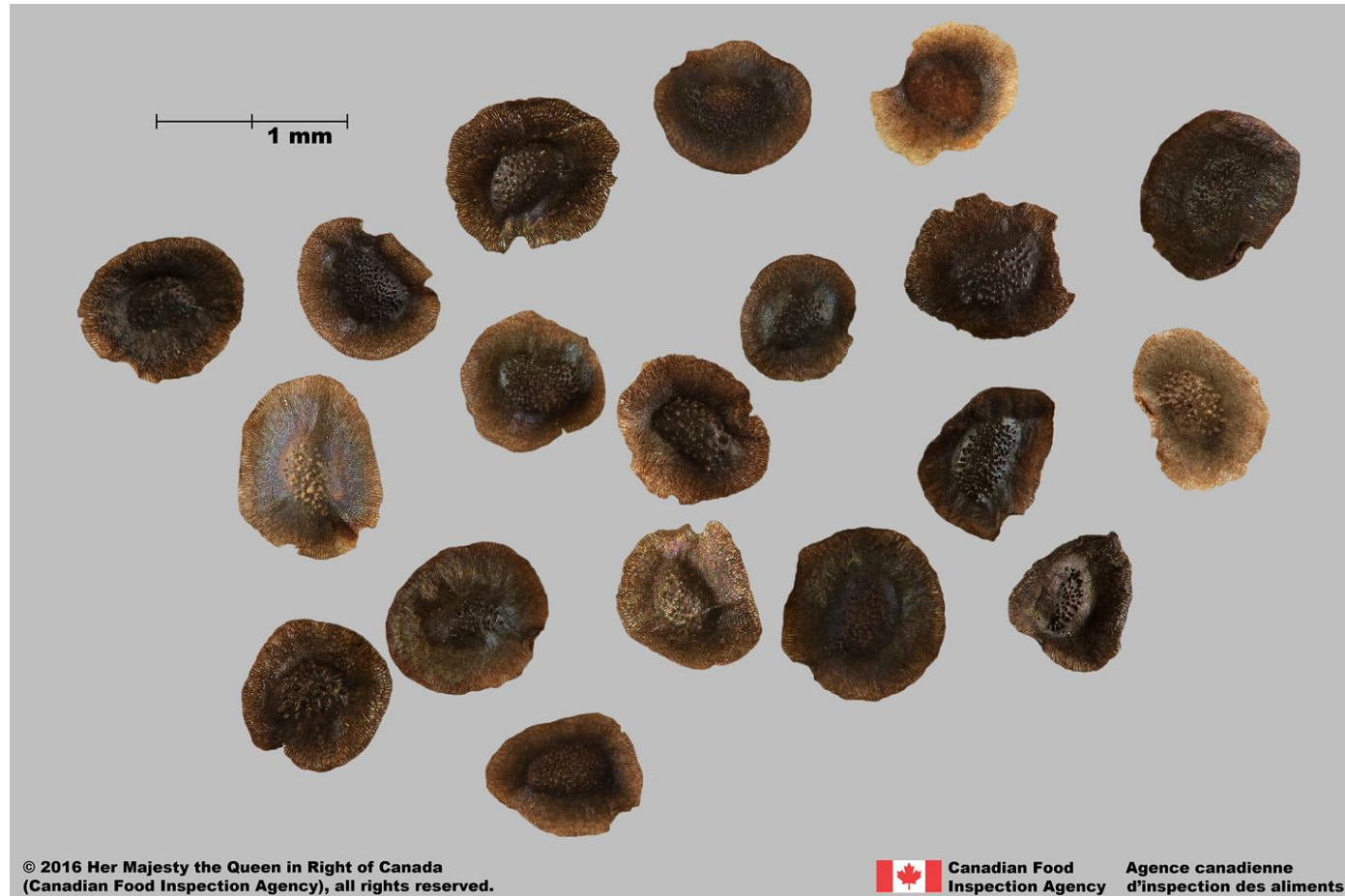
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Virtual ID of *Linaria* species

2. *L. vulgaris*



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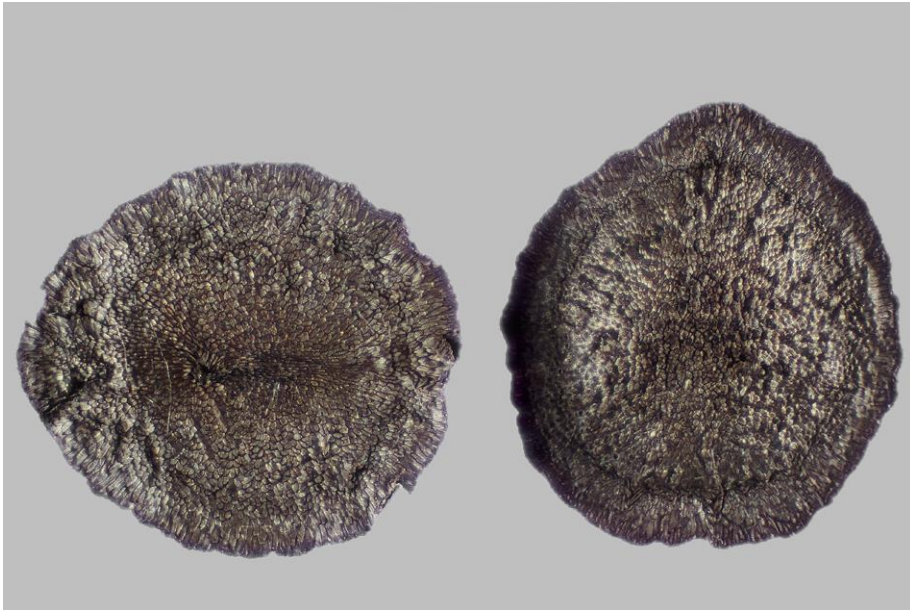


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Virtual ID of *Linaria* species

3. *L. triornithophora*



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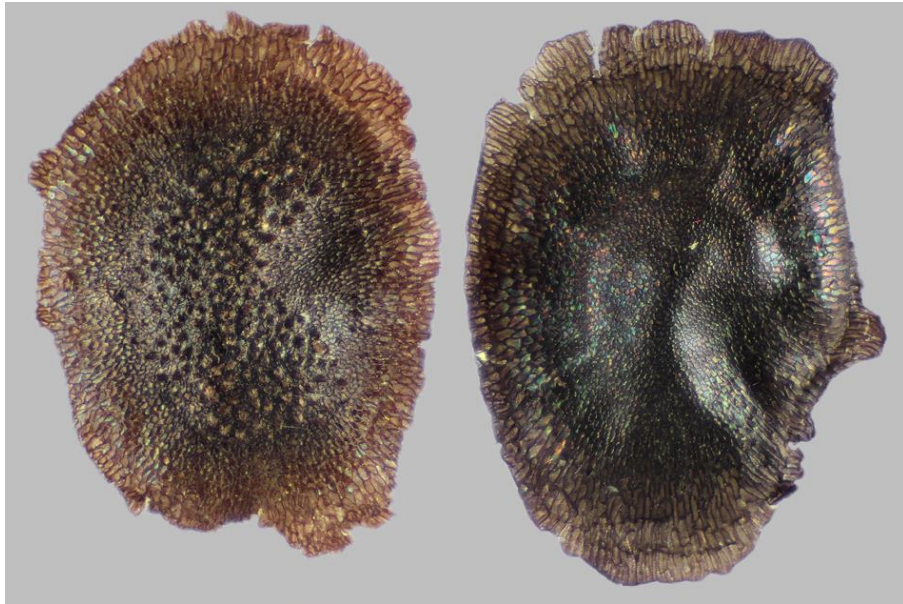


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Virtual ID of *Linaria* species

4. *L. supina*



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Virtual ID of *Linaria* species

5. *L. dalmatica*



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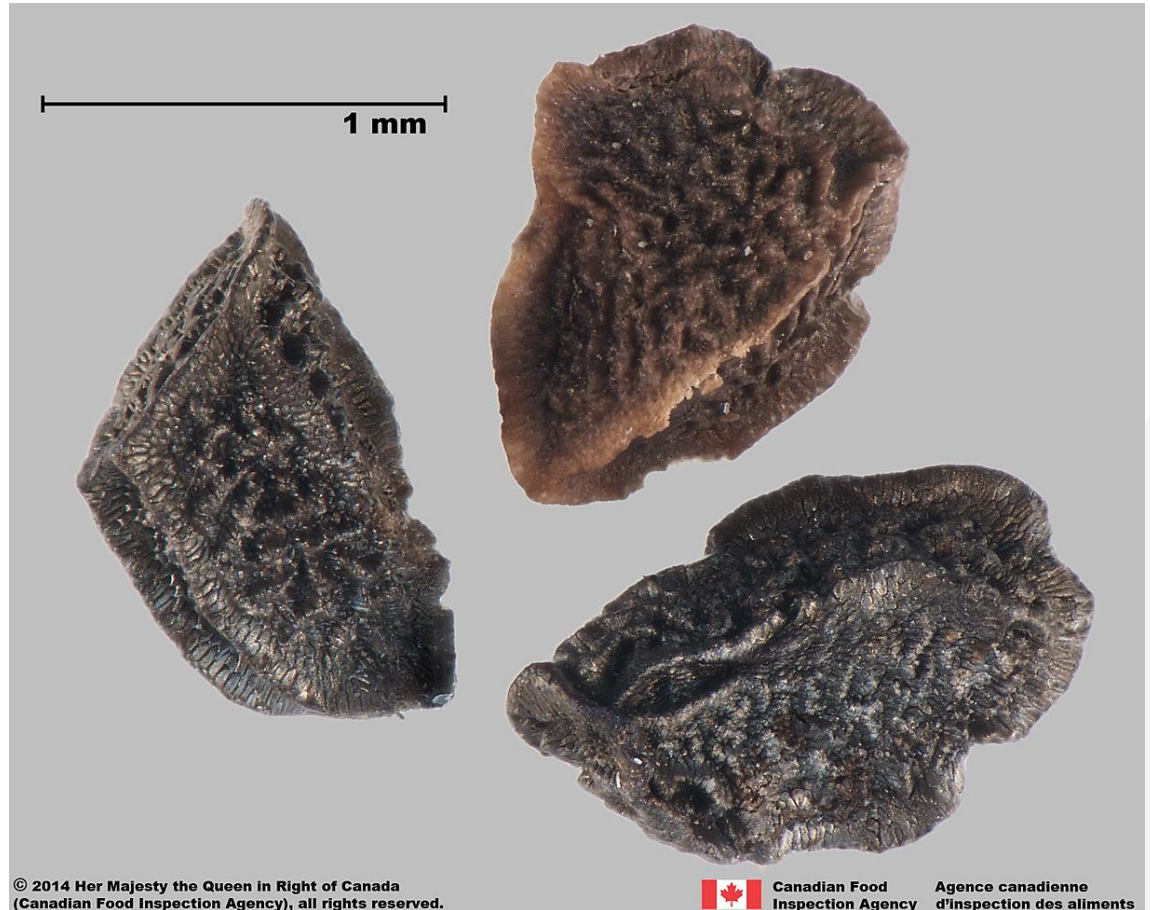


Virtual ID of *Linaria* species

6. *L. genistifolia*



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Virtual ID of *Linaria* species

7. *L. maroccana*



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Virtual ID of *Linaria* species

8. *L. purpurea*



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Virtual ID of *Linaria* species

9. *L. repens*



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Identification features of *Solanum* species



Virtual ID of *Solanum* species

1. *S. americanum*



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Virtual ID of *Solanum* species

2. *S. carolinense*



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Virtual ID of *Solanum* species

3. *S. elaeagnifolium*



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Virtual ID of *Solanum* species

4. *S. physalifolium*



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Virtual ID of *Solanum* species

5. *S. ptychanthum*



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Virtual ID of *Solanum* species

6. *S. nigrum*



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Virtual ID of *Solanum* species

7. *S. rostratum*



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Virtual ID of *Solanum* species

8. *S. torvum*



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Virtual ID of *Solanum* species

9. *S. triflorum*



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Virtual ID of *Solanum* species

10. *S. viarum*



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