

My Biol 381 Beamer Presentation

Zoe Portlas

September 12, 2018

Centaurea jacea and Centaurea nigra

- Both native to Europe

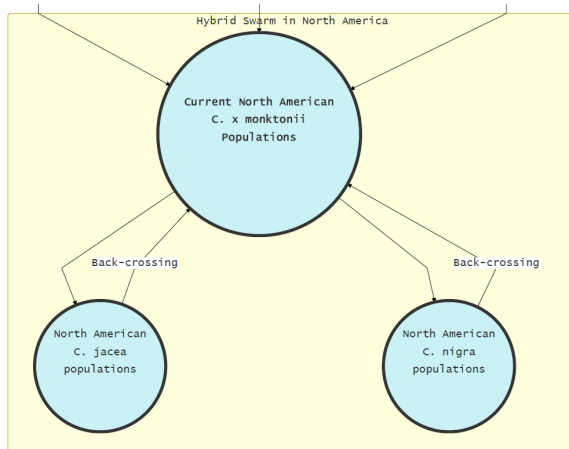
Centaurea jacea and Centaurea nigra

- Both native to Europe
- Invasive in North America

Centaurea jacea and Centaurea nigra

- Both native to Europe
- Invasive in North America
- Hybridize to form *C. x Moncktonii*

Back-crossing



Centaurea jacea,
Centaurea nigra,
and *Centaurea x moncktonii* can all cross with each other, and this happens in invasive populations in North America.

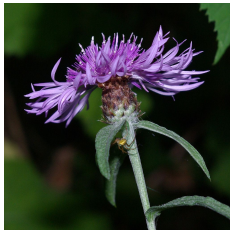
Morphology



Centaurea jacea



Centaurea nigra



Centaurea x moncktonii

Morphology

- From the images of the different members of the family (if they were identified correctly), we can see that morphology is very similar.

Morphology

- From the images of the different members of the family (if they were identified correctly), we can see that morphology is very similar.
- Morphology isn't a good way to identify!

Questions

- When did North American populations hybridize? Before or after invasion? Both?
- How are populations in North America different than populations in Europe?
- Are there novel combinations of alleles in North America that don't exist in the native range?