

Exploring *R. Maritima* Seed Germination and Metrics: **A Brief Hello and Introduction**

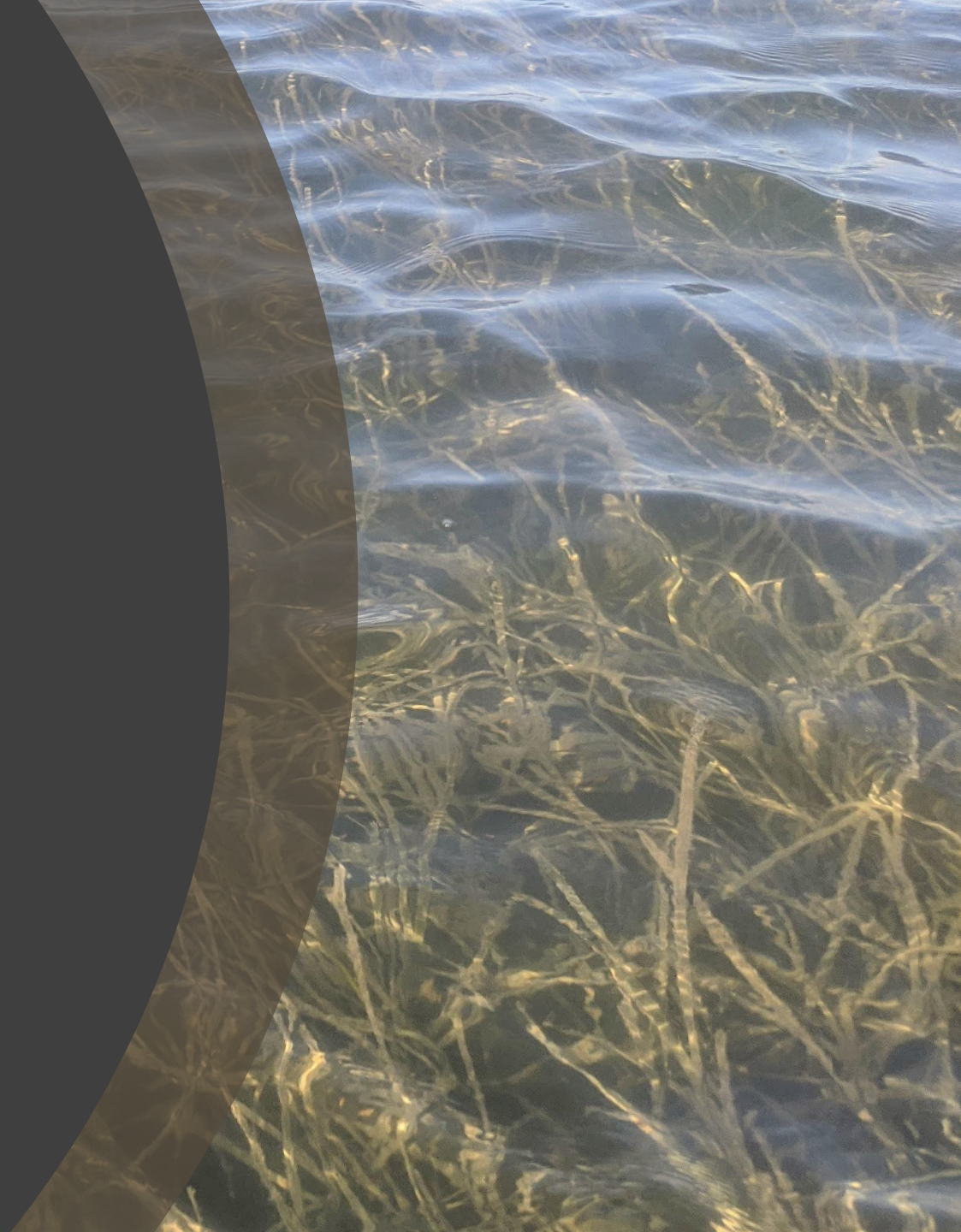
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Feb. 17th, 2021
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At VIMS 2020-?

- Research that:



At VIMS 2020-?

- Research that:
 - develops conservation/restoration strategies.



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 - What new species and techniques may we need?
 - *Ruppia Maritima* seeds



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 - *Ruppia Maritima* seeds
 - makes climate change predictions
 - What does the future hold for seagrass?
 - *Halodule wrightii*



Exploring *R. Maritima* Seed Germination and Metrics



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- Separate by bulk fall velocity: flume



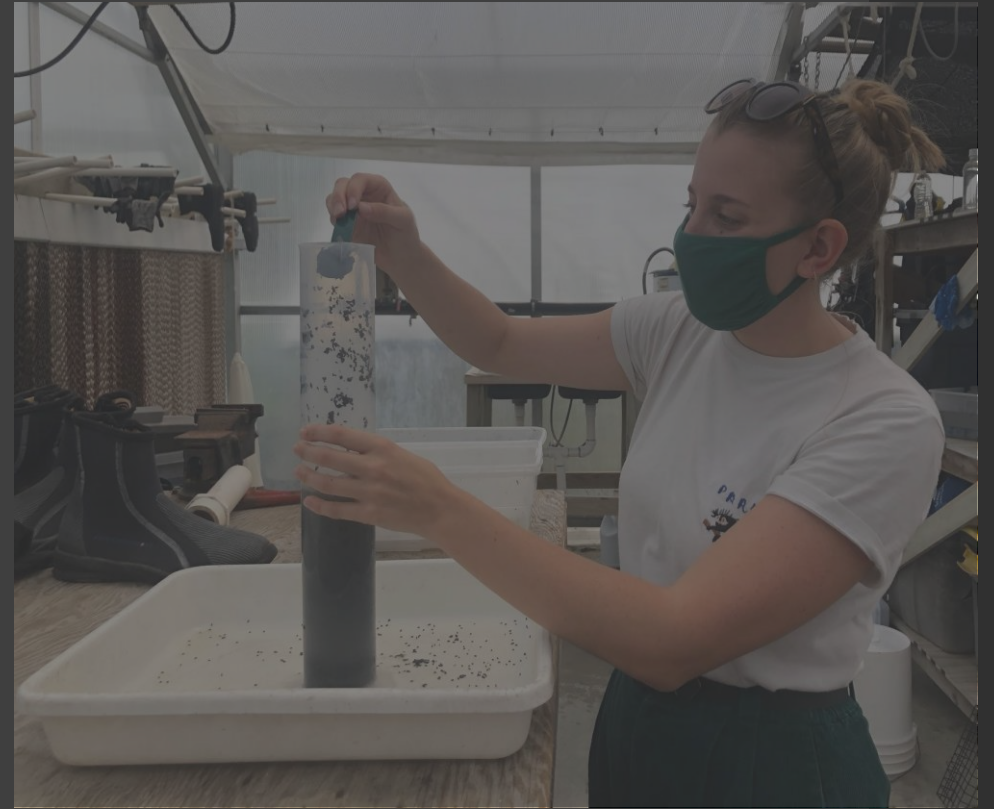
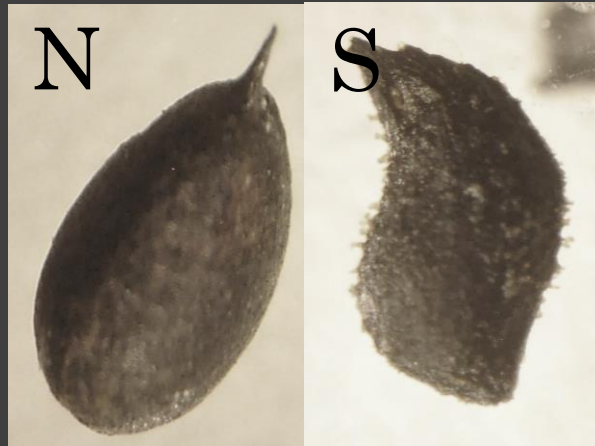
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 - 10 subsets



Exploring *R. Maritima* Seed Germination and Metrics

- Separate by bulk fall velocity: flume
 - 10 subsets
- Measure 450 individual seeds:
 - Fall velocity
 - Shape →
 - Size (length & width)
 - Squeeze or burst?



Germination Methods

Pre-Dormancy

Fresh Water

21 Days

15°C

12 Light/Dark



Dormancy

-

6 Weeks

4°C

24 Dark



Post-Dormancy

-

21 Days

15°C

12 Light/Dark

Results



Pre-Dormancy

56



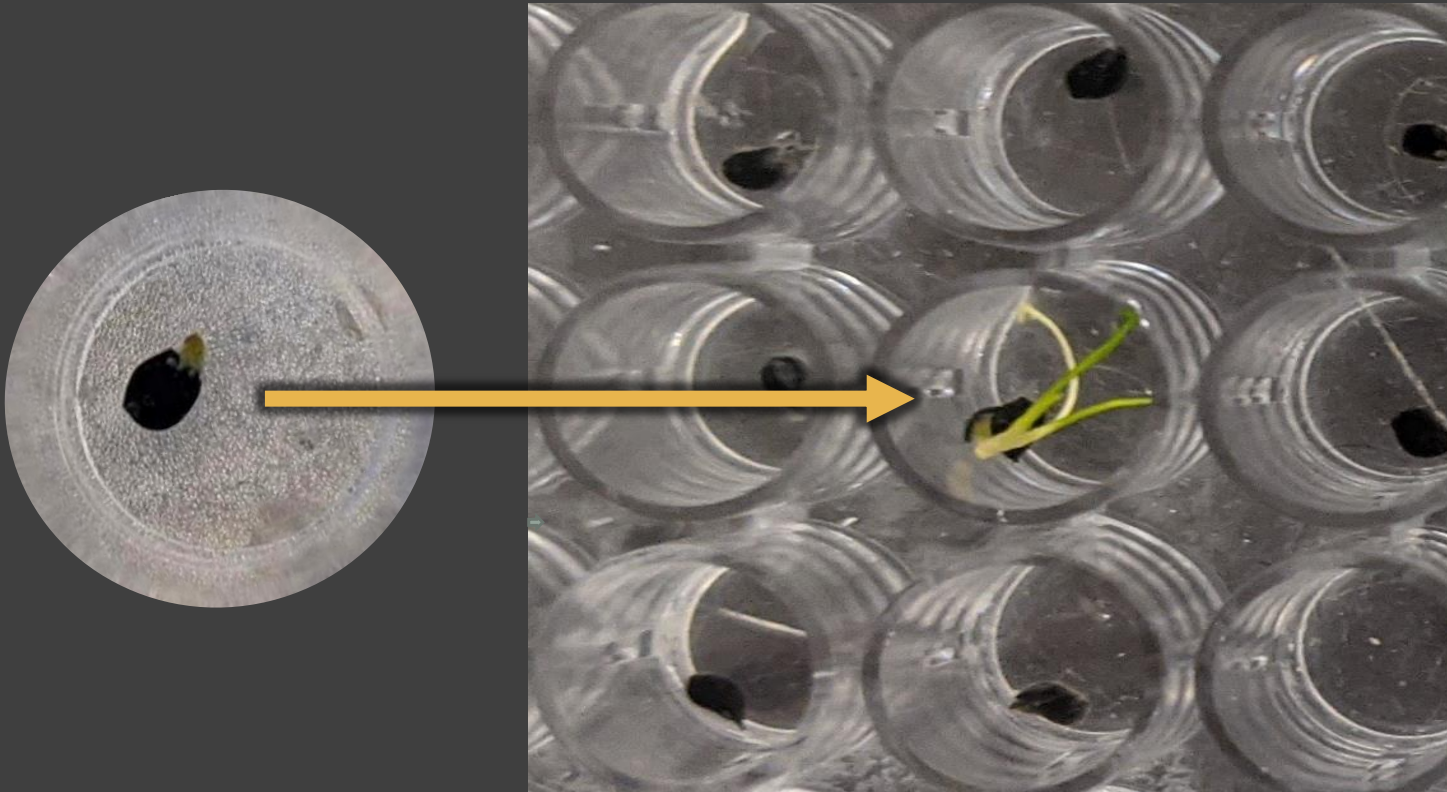
Dormancy

5

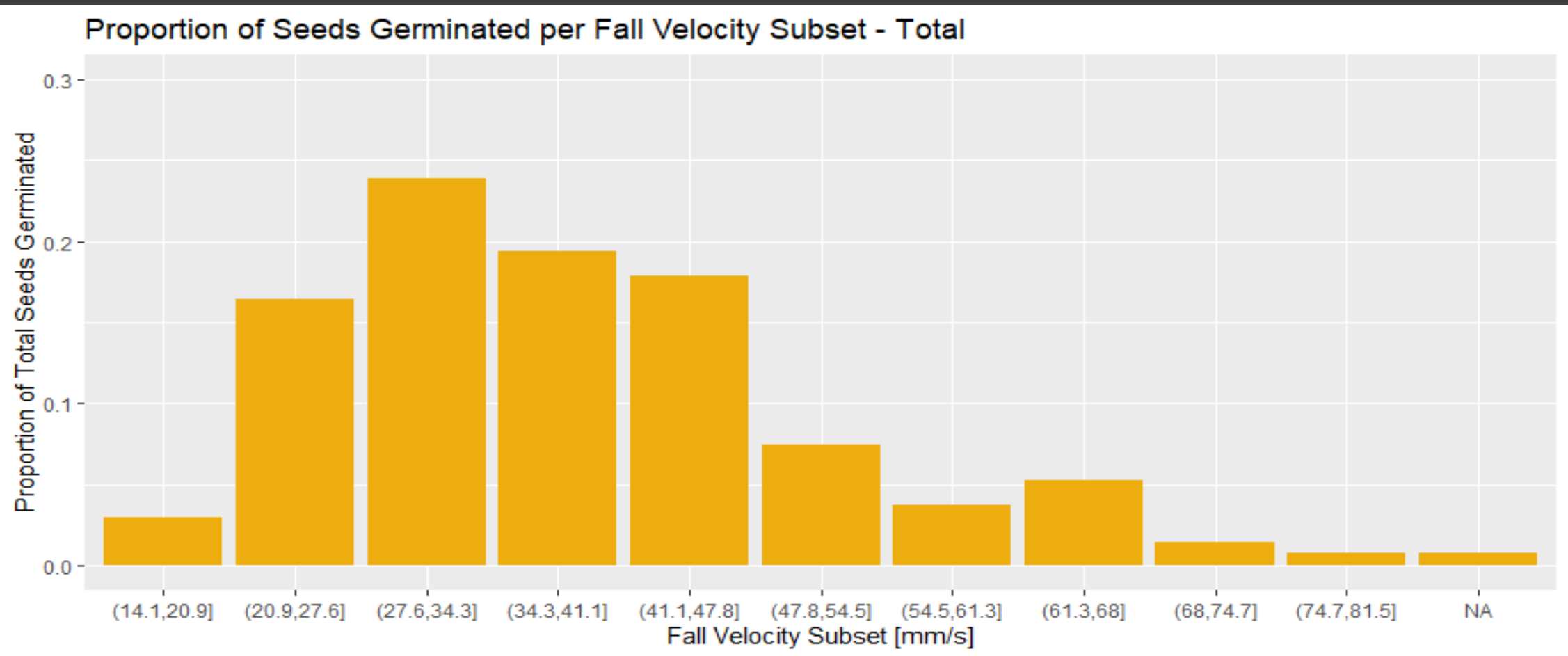


Post-Dormancy

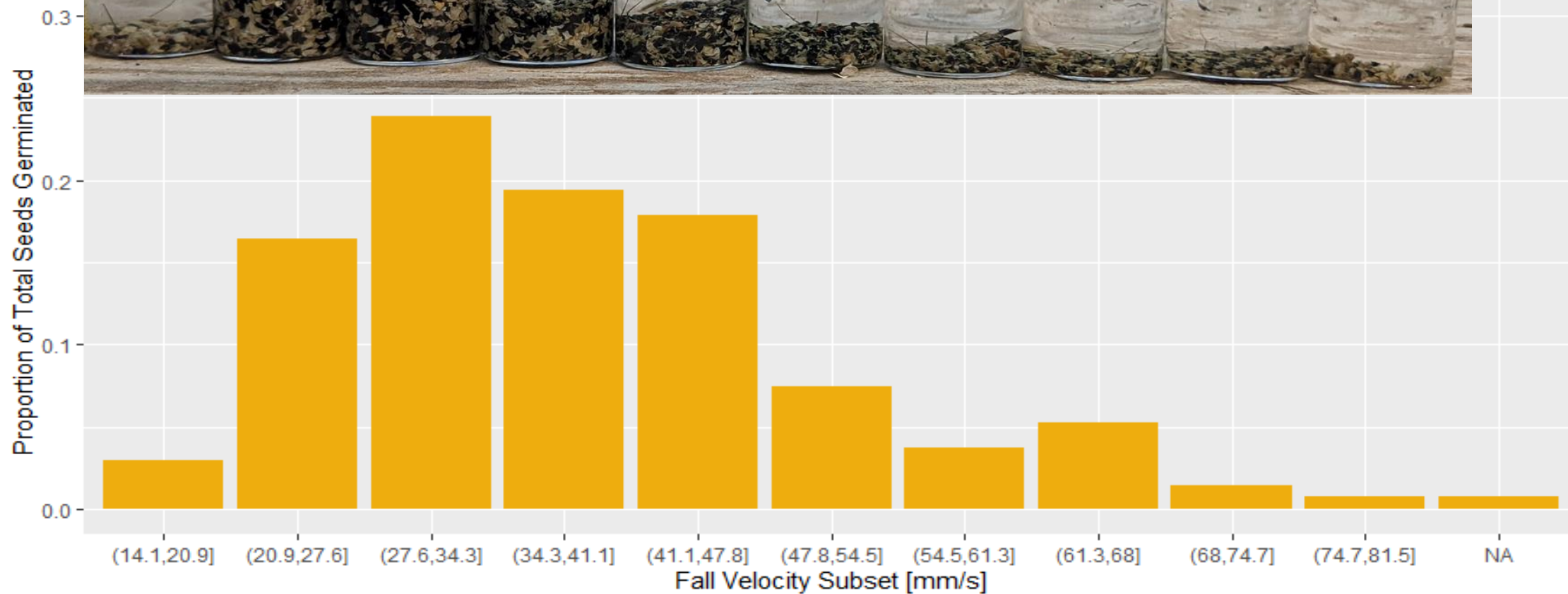
73



Results



Results



Thank you!



Questions?
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& MARY
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