ASSESSING STOMATAL CONDUCTANCE OF ROSE CULTIVARS IN THE TEXAS PANHANDLE

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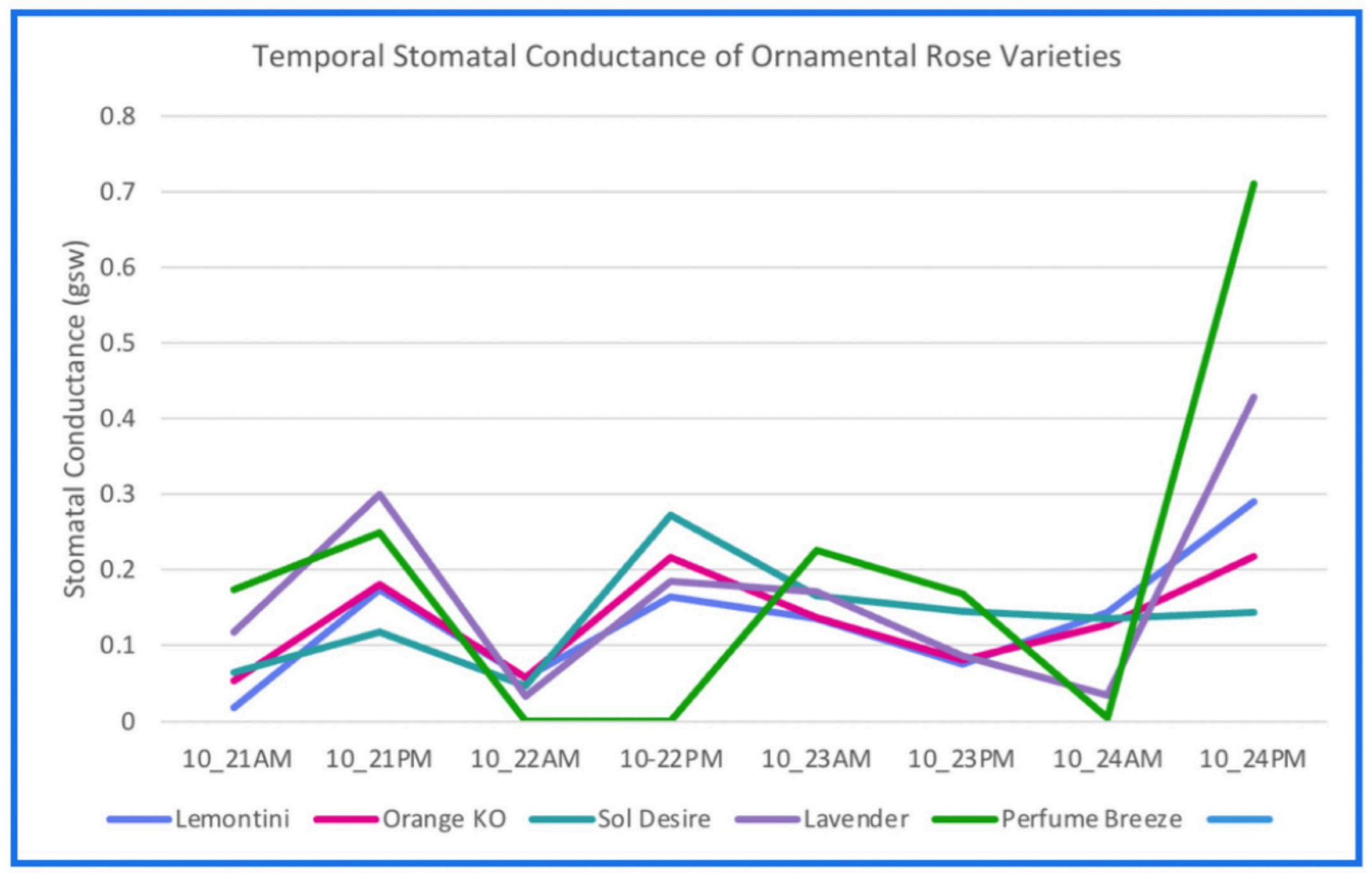
INTRODUCTION

How does stomatal conductance differ between own-root rose cultivars that have experienced herbivory?

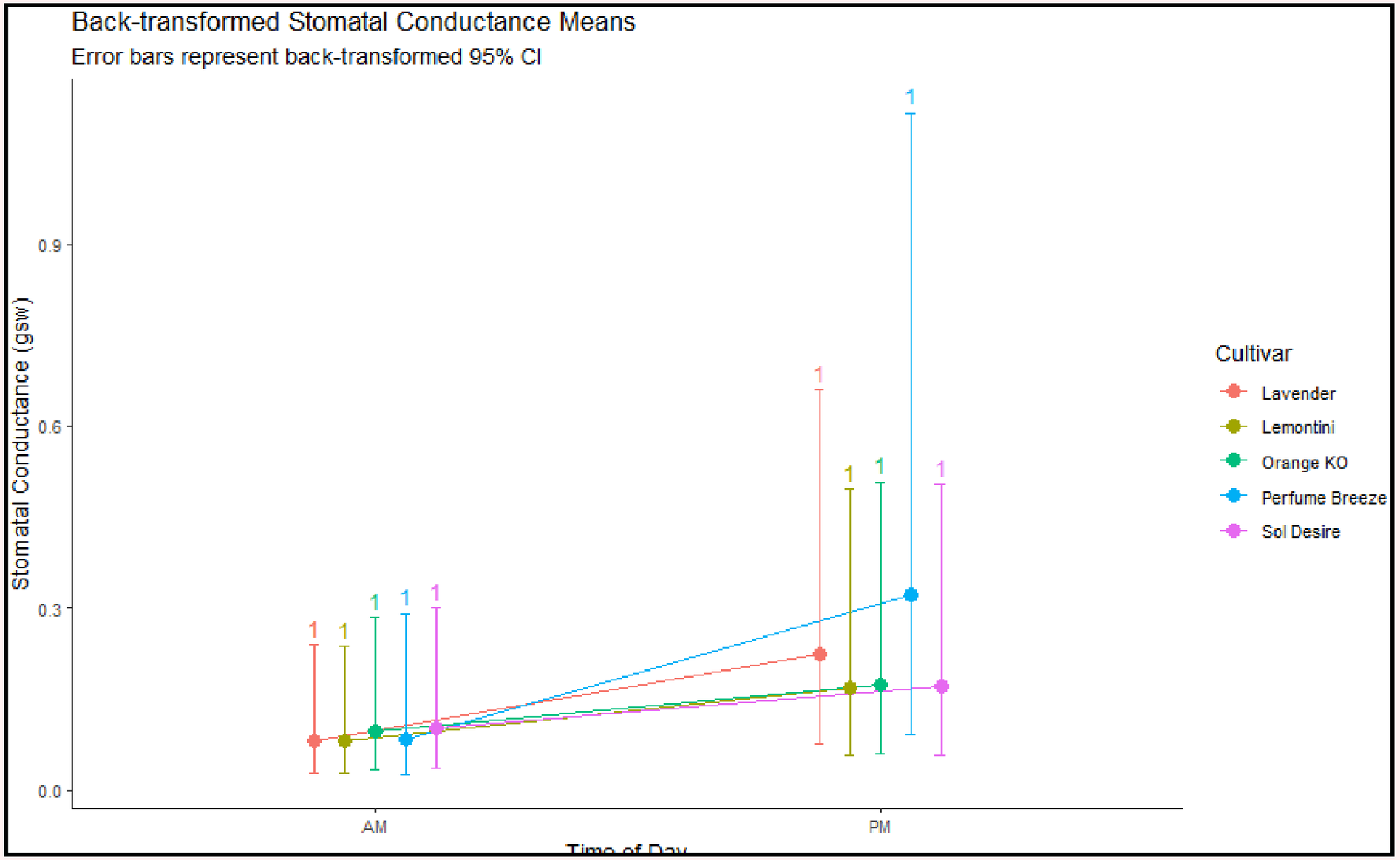
DATA COLLECTION

Nance Ranch, Canyon, Tx

- 5 cultivars x 3 reps
  - 3 leaves per cultivar
- Measurements 2x a day
- LI-600 portable porometer


Temporal Stomatal Conductance of Ornamental Rose Varieties
Stomatal Conductance (gsw)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
10_21AM
10_21PM
10_22AM
10-22PM
10_23AM
10_23PM
10_24AM
10_24PM
Lemontini
Orange KO
Sol Desire
Lavender
Perfume Breeze

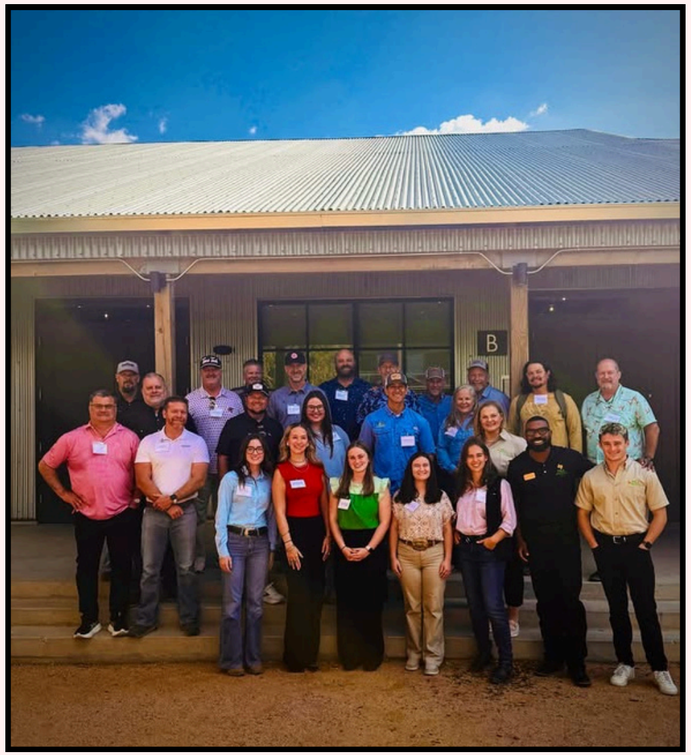
RESULTS



No significant differences between cultivars. However, we can see a trend between the morning and evening measurments.

INTERNSHIP EXEPERIENCE

Recovery Dynamics in the Texas Panhandle
Texas Nursery and Landscape Association West Texas Workshop
West Texas A&M Horticulture Club



CONCLUSION

- Opportunity for further research and continued exploration
- Developed communication through workshop and involvement
- Work towards veterinarian school with the skills and knowledge gained from this opportunity

MENTORS

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THANK YOU