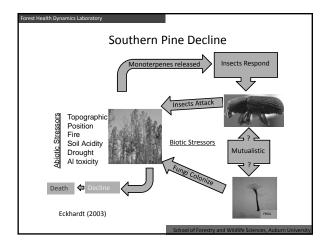
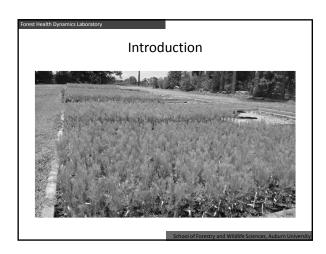
## Response of Different Mature Loblolly Pine Families to *Leptographium terebrantis* and *Grosmannia huntii*

Pratima Devkota and Lori G. Eckhardt

Forest Health Dynamics Laboratory School of Forestry and Wildlife Sciences, Auburn University

Forest Health Dynamics Laboratory





# Objective • To understand how reliable is the seedling screening study? Seedling Families Mature Families School of Forestry and Wildlife Sciences, Auburn University

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# Hypotheses

- Families have same pattern of tolerance in seedling and mature stage
- Average lesion length varies among each fungal treatment within each family

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	Sample Information				
Family	Site	Tree Age	Tree Height in fit	Tree Diameter in inch	
L8 (T2)	N 32.027854 W 85.213076	18	55.44 ± 5.79	7.64 ± 0.80	
L5 (T1)	N 32.005701 W 85.219879	18	33.87 ± 3.18	7.53 ± 9.10	
L56 (S2)	N 31.880579 W 84.991929	18	35.78 ± 2.53	7.63 ± 0.53	
L37 (S1)	N 32.068077 W 83.551859	18	49.46 ± 3.11	7.75 ± 0.93	
			Cohoo	Laf Caracter and Mildlife Colone	

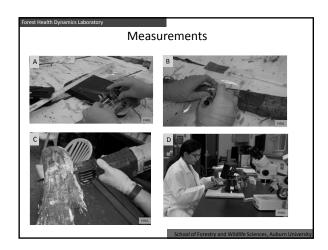
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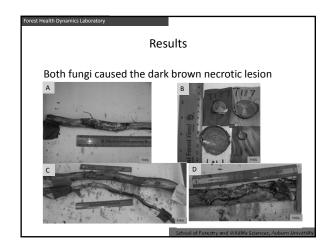
# Methodology

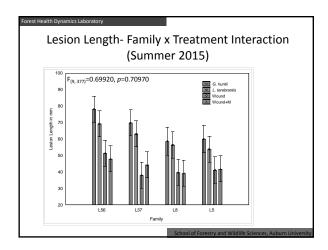
- Summer 2015 and Spring 2016 in 3 locations
  - Eufaula, AL
  - Georgetown, GA
  - Cordele, GA
- 4 families were selected based on previous seedling screening trial results
  - 2 susceptible (L56 and L37)
  - 2 tolerant (L8 and L5)

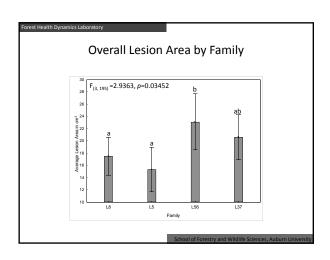
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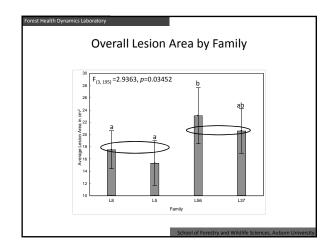
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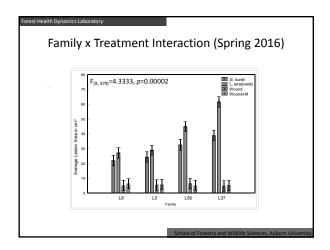


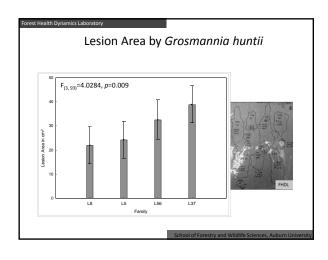


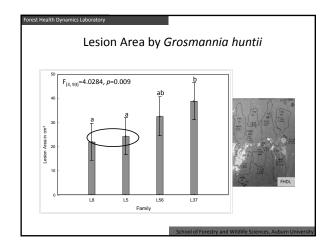


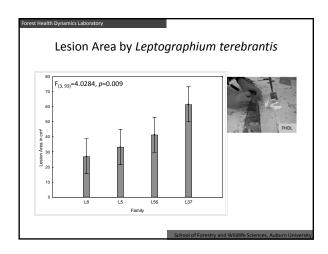


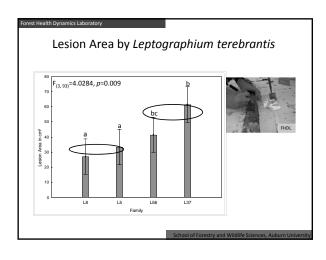


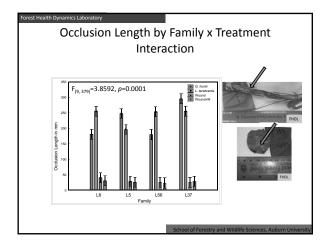












## Conclusion

- Susceptible families still susceptible and tolerant family still tolerant at mature stage
- Lesion is proportionally similar in seedling and mature trees
- Same pattern of tolerance as seedling families was observed
- Results support seedling screening study
- Shows reliability of seedling screening study

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