

Scalping study Atmore Nursery

David South

Auburn University

Southern Forest Nursery

Management Cooperative



Scalping improves growth when pines
are planted on agricultural fields



November 13-14, 2006

Scalping on 14 foot centers



Lifting dates November, 2006

Different genotypes

November 28



November 16



Machine planted
November 29, 2006



Machine planted

November 29, 2006



Machine planted November 29, 2006



■ Scalped



not scalped

Bareroot



Not Scalped = 91%

scalped = ??

Bareroot



Not Scalped = 91%

scalped = 74%

Container



Not Scalped = 70%



scalped = 64%

January 2007



March 2007



- 2007
- Banded herbicide applications were made over the rows (6-ft band).
- April
- Oust (1.5 oz ai/ac).
- October
- Arsenal (1.75 oz ai/ac)



July 2007



not Scalped

(3 months after Oust)



scalped

Prescribed burn

Feb 7, 2008



March 2008



not Scalped



scalped

“If the soils are very wet, or the soils are very heavy (high clay content), scalped rows may hold water and drown the seedling” (Mark Hains 2003).



not Scalped = 91%



scalped = 74%

March 2010



June 2010 - 42 months after transplanting

Tallest tree was
14.4 ft
(4.4 m)

About 7 ft/yr

A possible record?

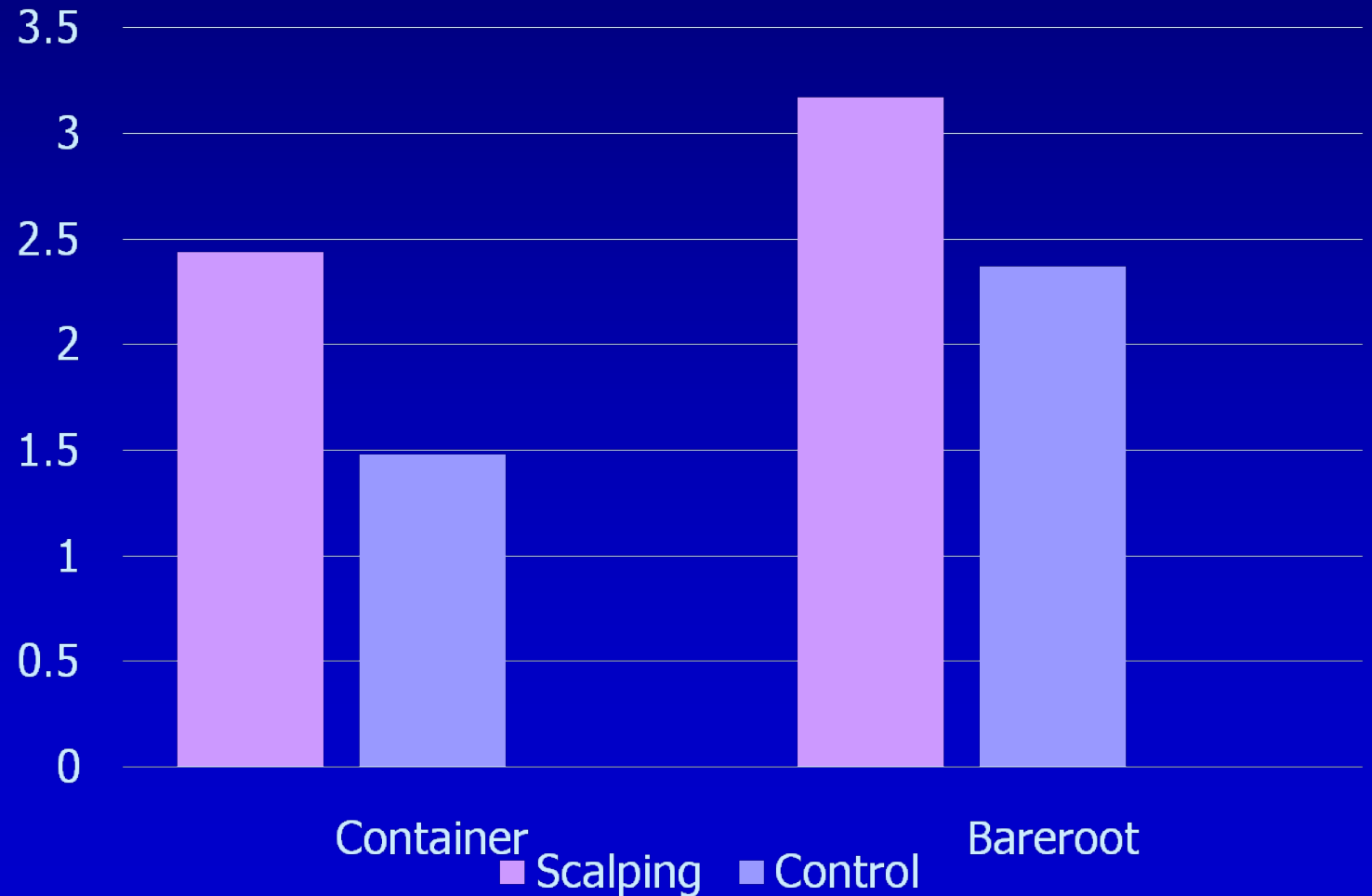


Scalping improves early growth of longleaf pine seedlings

David B South



Height (meters)



Very little toppling < 2%



Conclusions

- For survival, there is an interaction between site and scalping. Survival is increased on some sites... decreased on others.
- Scalping provides better weed control and increases early height growth.

Questions?



Scalping improves early longle

David B South

