Florida Land Steward Webinar

Vegetation Management Primer: Why Use Herbicides?

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Please <u>use the Q & A function</u> to ask questions, not the Chat. Questions will be answered after the presentation.



Please complete **the very short evaluation** at end of the webinar – *Thanks!*

Presentation slides and other reading materials for this webinar are available online at:

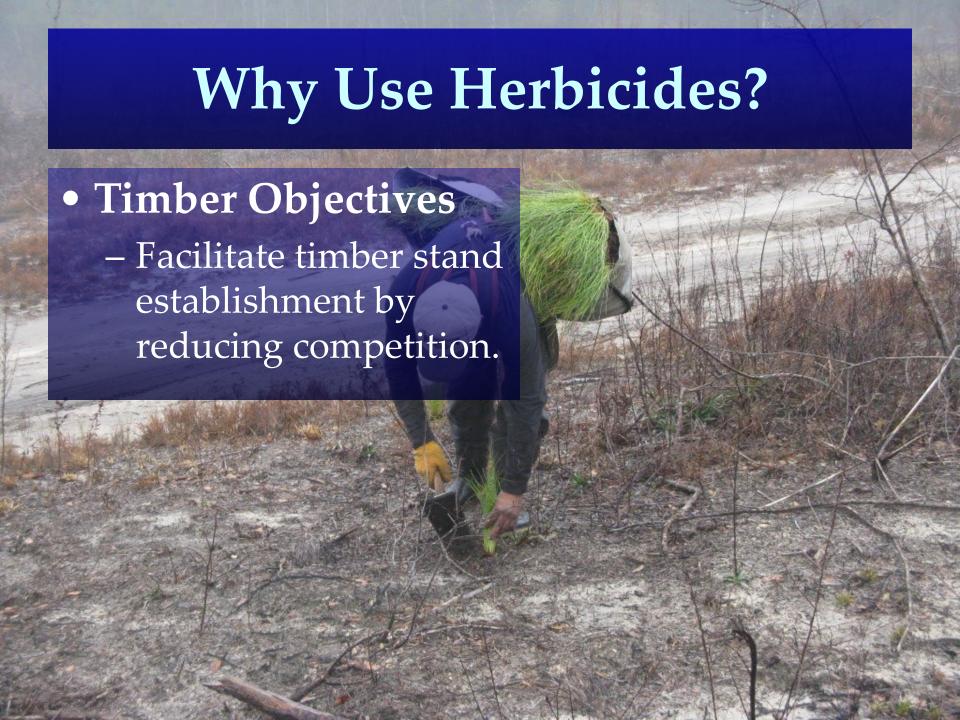
https://programs.ifas.ufl.edu/florida-land-steward/



Vegetation Management Primer: Why Use Herbicides?







Why Use Herbicides?

- WildlifeObjectives
 - Alter vegetation
 composition and
 structure to meet
 habitat needs.



But isn't mechanical control or fire cheaper? It depends...

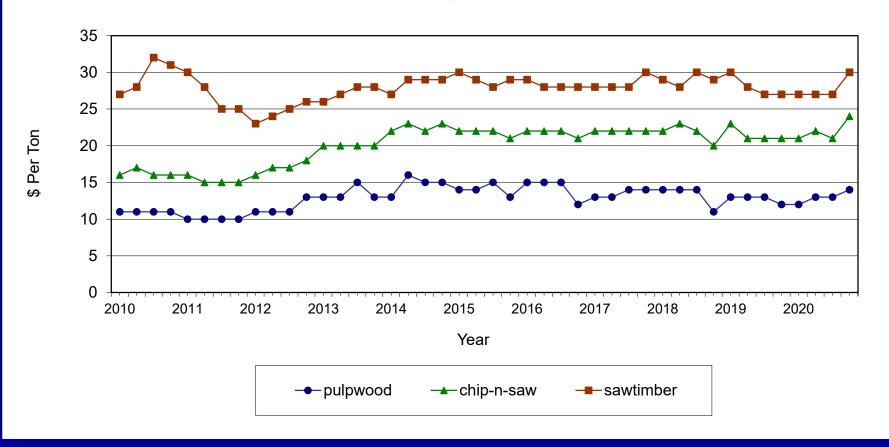
Herbicides Can:

- •bring longer-lasting control of competing vegetation = increased economic return.
- •control tough invasive plants.
- retain biomass for soil protection.
- avoid soil compaction.
- •be costly.

Herbicides Cannot:

- •reduce slash accumulations after harvest.
- regenerate fire-dependent species.
- •be used without caution:
 - -application failure
 - -drift to non-target crops
 - -surface runoff
 - -spills

Average Pine Stumpage Prices for Florida (\$/Ton) 1st Qtr 2010 through 4th Qtr 2020



Source: Timber Mart-South 4th Qtr 2020 Report, released January 2021

Timber



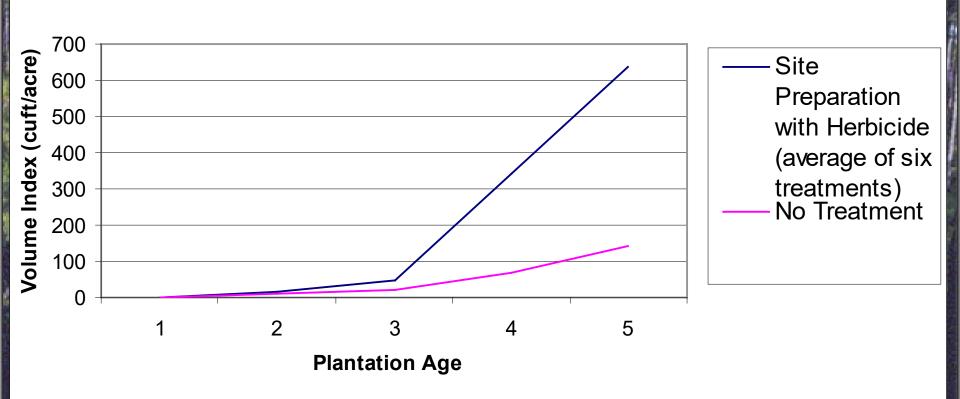
• Pine trees don't like shade or crowds.





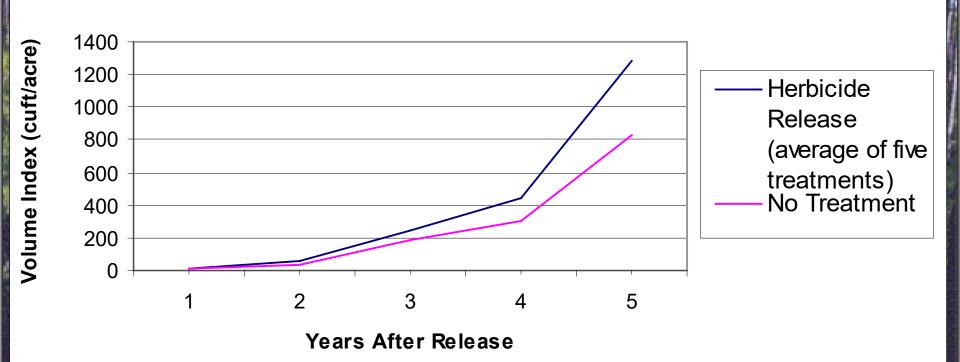
Site preparation can bring early and long-lasting growth increases

Central Georgia Loblolly Pine Site Preparation and Release Study, 1994

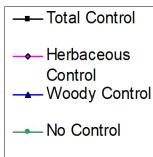


Seedling release can also yield early growth response if woody competition is heavy

Central Georgia Loblolly Pine Site Preparation and Release Study, 1994



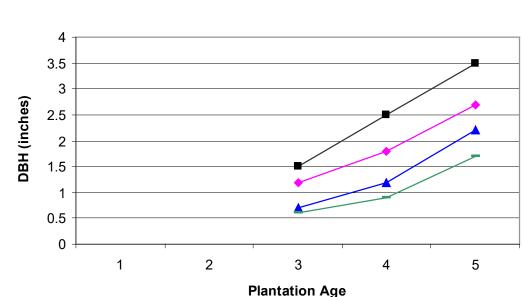




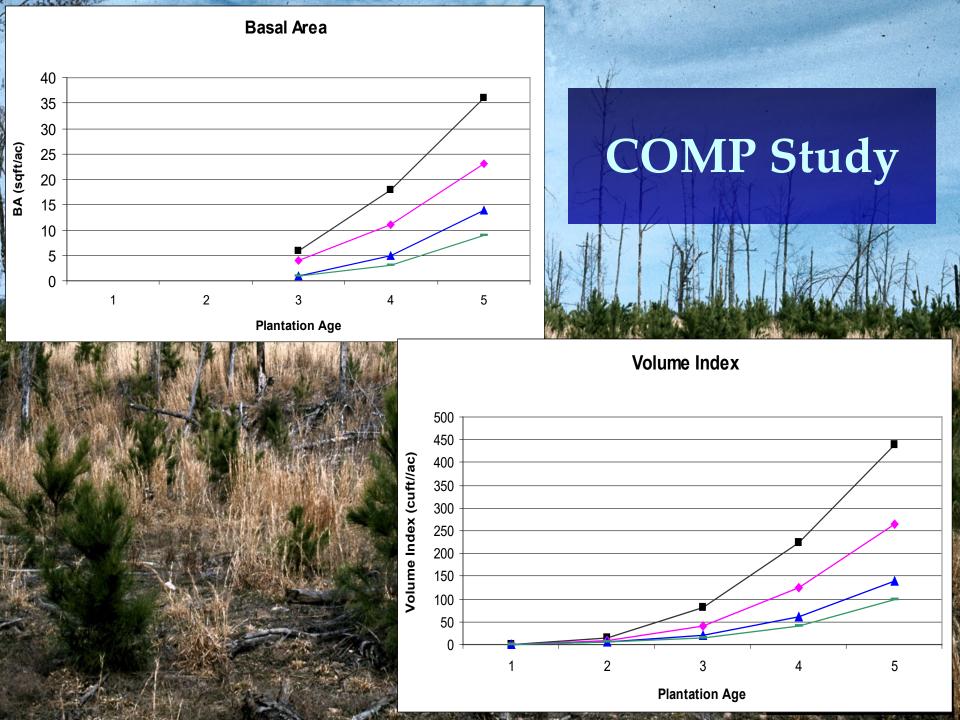
South-wide COMP Study

Competition Omission Monitoring Project

Averages of 14 loblolly pine growth study sites across Alabama, Arkansas, Georgia, Mississippi, Tennessee and Virginia.



DBH



Average gains of ½ cord / acre / year with early control

Competition control in first 2 years of stand can bring higher returns than release treatments later in rotation.

•Long-term volume increases often pay their way.

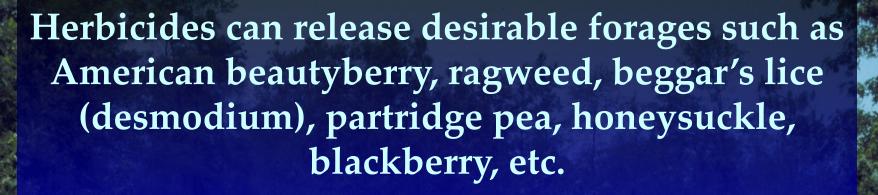


Herbicides used to favor food plants for deer





Photos, Leslie Hawkins

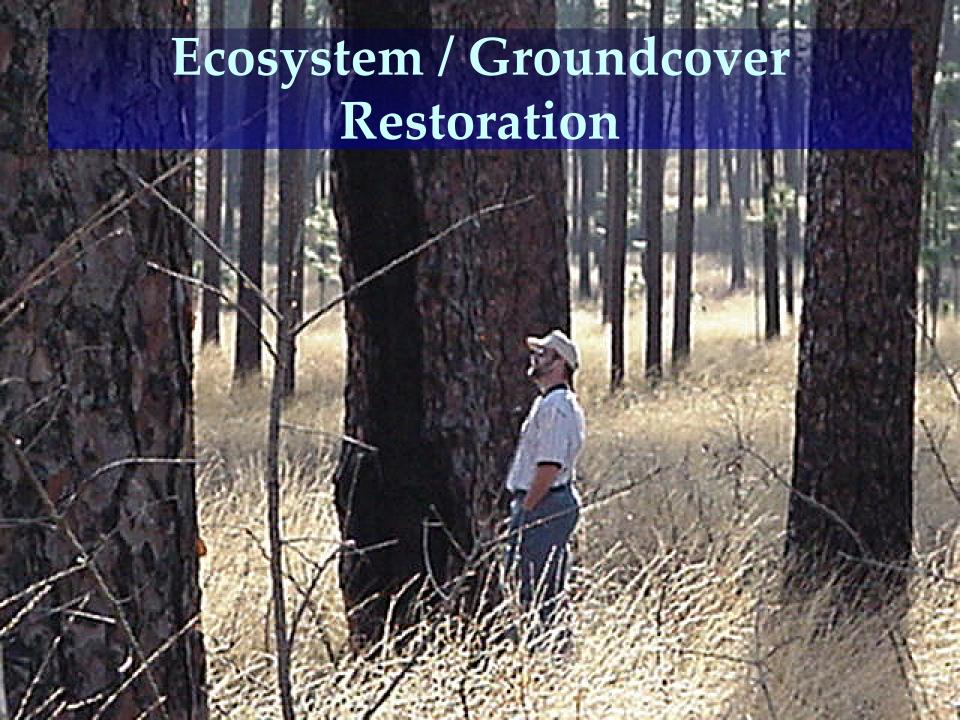




Control shrubs and hardwoods to favor early succession plants.















CAUTION!



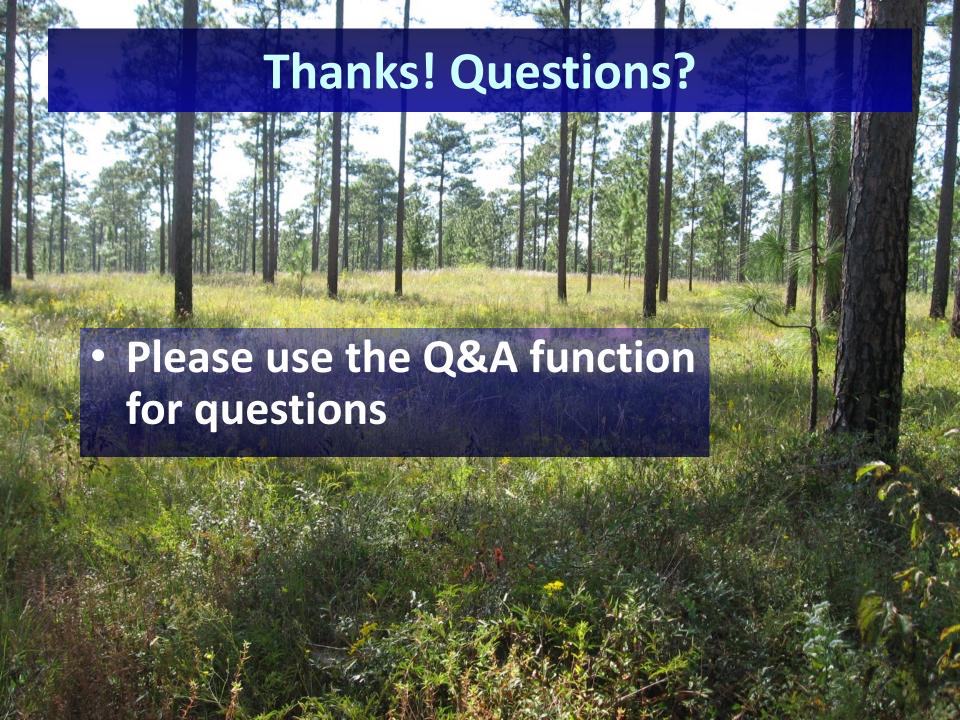
- Know your objectives.
- Have a plan.
- Always follow the product label.
- Be safe.
- Avoid bad weather.
- GET HELP if you don't know what you're doing.
- Keep good records.

American Tree Farm System (ATFS) Certification

2021-2025 American Tree Farm System Standards of Sustainability

- Standard 4-G for 4.2.2
- Landowners <u>must</u> maintain and <u>provide documentation</u> of pesticide (including herbicide) use on their property.
 Documentation must include <u>what was applied, when,</u> and <u>where.</u>
- This change can have a direct effect on certification.
 During the transitional period to the new Standards, if a landowner has not retained this information, they should work with their forester to develop records based on the information they have available (i.e., firsthand knowledge of what/when/why a pesticide was applied).





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NEXT WEEK

Florida Land Steward Webinar:

Advances in Herbicide Technology in Pine Management

February 16, 2021, 11:00 am ET

Dr. Pat Minogue, Associate Professor of Silviculture and Extension Specialist, University of Florida IFAS School of Forest Resources and Conservation

CFE, CEU approved:

- 1.0 Cat. 1 SAF CFE and
- 1.0 FDACS CEU in the category of Forest Pest Control, Natural Areas Weed Mgmt, Private Applicator, or ROW Pest Control.



THANKS PARTNERS AND SUPPORTERS!



















THANKS FOR JOINING US!





