	Joans III	る事権計	
Effects	THE RESIDENCE AND REPORT OF THE PARTY OF THE	ire on	
A A	mphibians	是一个人	
			4
			1
	Justin Droke	12-	
	WFS: 443		
		A TOP OF THE PARTY	

		4.7			
O	in in	m	ш	m	$\boldsymbol{\omega}$
\sim	84	19.49	9.9	44	, Sur

Introduction -What is Silviculture...

How can Silviculture affect amphibians...

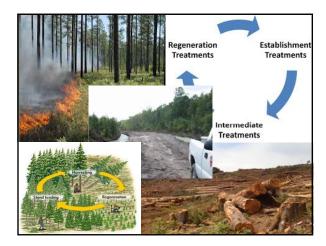
How is Silviculture causing amphibian decline...

Overview - Importance of Silviculture...

Silviculture

U.S. Forest Service - The <u>art</u> and science <u>of controlling</u> the establishment, growth, composition, health and quality of <u>forests</u> and woodlands <u>to meet</u> the diverse <u>needs</u> and values <u>of landowners</u> and society <u>on a sustainable basis</u>.

"Silviculture." US Forest Service Forest Management -, N.p., n.d. Web. 17 Apr. 20



Silviculture's effects on Amphibians

Amphibian Characteristics

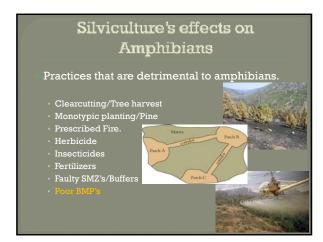
- Ectothermic
- Small Home Range
- · Permeable Skin

Silviculture's effects on Amphibians

Amphibian Needs

- Vegitation in terrestrial and breeding areas.
- Abundance and quality of course woody debris.
 Ample leaf litter
- Appropriate temperature and humidity.
 Limited disturbance.
- Juxtaposition/Interspersion/Edge

_



Evidence of Silviculture Related Declines

Clearcutting – Clemson University

- 2-20 y/o clearcuts compared to mature hardwoods and hardwood/conifer forests.
- Large study = 7 individual studies over 20 years.
- Up to 9.3 times greater abundance in mature stands.

"Effects of Clearcutting on Amphibians and Reptiles." Effects of Clearcutting on Amphibians and Reptiles. N.p., n.d.
Web. 17 Eur. 2013

Evidence of Silviculture Related Declines Means, 2000 Fictors Adversely Affecting US Amphibian Populations Land Use Exotic Species Chemical Disease Water Source Collect./Harv. UV-B Other 0% 20% 40% 60% 80% 100% Percent of Species in Group Anurans (n=53 species) Caudates (n=93 species)

Silviculture! It's Obvious

The \underline{most} contributing factor to Amphibian $\underline{\text{Decline}!!!}$

The most devistating The most widespread The least controlable

= Silviculture promotes all other factors of decline