

Establishment of Loblolly Pine in Cogongrass Now in the 6th Growing Season

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Objective: Test methods for establishing loblolly pine by planting seedlings into treated and untreated cogongrass for grass suppression, wood production, and site restoration.

Plots: 0.15 acres (82 X 82 ft) with interior 0.06 ac measurement plot

Seedlings: "Superior" loblolly pine, 1 year old bare root seedlings, planted Jan 14-15, 2001
kicked spots into grass with heel before planting to bare soil
8.2 x 8.2 ft spacing (2x2 m), 650 trees per ac

<u>Treatments: All combinations of treatments are being tested</u>	<u>Cost</u>
<u>Herbicide Site Preparation</u> Broadcast Applied October 3 and 4, 2001 - Accord Concentrate at 4/5 gallon per acre (4 lb ai glyphosate per ac) + Arsenal AC 12 oz per acre + Timberland 90 Surfactant at 0.5%	\$75/ac
<u>Scalping (Mechanical Site Prep)</u> - Planting row strips Dec 19, 2001 Mathis Trailer Fireplow set below rootmat depth at about 6 inches	\$100/ac
<u>Release Oversprays of First-year Pines</u>	
No Site Prep Plots - Bands Applied May and Oct, 2002 to split plots	
Half plot - Arsenal AC 6 oz per ac	\$22/ac
Half plot - Ars AC 4 oz + Oust 2 oz per ac	\$34/ac
Herbicide Site Prep Plots - Bands applied Oct, 2002	
Half plot – Accord 12 oz + Escort 1 oz per ac	\$22/ac
Half plot - Gly 12 oz + Escort 1oz + Oust 2 oz per ac	\$34/ac
Scalped Plots - Bands Applied Oct, 2002	
Half plot - Arsenal AC 6 oz per ac	\$22/ac
Half plot - Ars AC 4 oz + Oust 2 oz per ac	\$34/ac
<u>No Treatment</u> - plant into untreated grass with kicked out planting spots	
<u>"Complete Control"</u> High Rate (2X) Site Preparation and Release	
-S. P. : Accord Conc. 1.3 gal + Arsenal AC 24 oz + Surfactant	\$150/ac
Oct overspray with Ars AC 4 oz + Oust 1 oz + Escort 1 oz per ac	\$ 35/ac

Degussa Cogongrass Study Plot Layout



Block 2

No Treatment	Pine Over Spraying		<ul style="list-style-type: none"> • Herbicide SP • Pine Over Spraying <p style="text-align: center;">Ars + Esc - October</p>
	Ars May	Ars October	
	Ars + Oust October	Ars + Oust May	Ars + Oust + Esc - October
<ul style="list-style-type: none"> • Scalping SP • Pine Over Spraying <p style="text-align: center;">Ars - October</p>	<ul style="list-style-type: none"> • Herbicide SP • Scalping SP 		<p style="text-align: center;">Complete Control</p> <p style="text-align: center;">Herbicide SP 2x Rate</p> <p style="text-align: center;">Pine Over Spraying</p> <p style="text-align: center;">Ars + Oust + Esc - October</p>
Herbicide SP	Scalping SP		<ul style="list-style-type: none"> • Herbicide and Scalping SP • Pine Over Spraying <p style="text-align: center;">Ars + Oust + Esc - October</p>
			Ars + Esc - October
<ul style="list-style-type: none"> • Herbicide SP • Scalping SP 	<ul style="list-style-type: none"> • Scalping SP • Pine Over Spraying <p style="text-align: center;">Ars + Oust - October</p>		<p style="text-align: center;">Pine Over Spraying</p> <p style="text-align: center;">Ars October</p> <p style="text-align: center;">Ars + Oust May</p>
	Ars - October		<p style="text-align: center;">Ars + Oust October</p> <p style="text-align: center;">Ars May</p>
<ul style="list-style-type: none"> • Herbicide SP • Pine Over Spraying <p style="text-align: center;">Ars + Oust + Esc - October</p>	<p style="text-align: center;">Complete Control</p> <p style="text-align: center;">Herbicide SP 2x Rate</p> <p style="text-align: center;">Pine Over Spraying</p> <p style="text-align: center;">Ars + Oust + Esc - October</p>		<ul style="list-style-type: none"> • Herbicide and Scalping SP • Pine Over Spraying <p style="text-align: center;">Ars + Oust + Esc - October</p>
			Ars + Esc - October
Scalping SP	Herbicide SP		No Treatment

Block 1