

Weed Control

Part 4

David South

Auburn University





Nursery Activities

Applying Bed Stabilizer



Why?







0X



1X



2X



Stabilizer Rate	Weed/ft ² May	Pines/ft ² May
0X	0.00 a	18.3 a
1X	0.04 b	31.7 b
2X	0.07 b	34.2 b
<i>lsd</i>	0.03	3.0



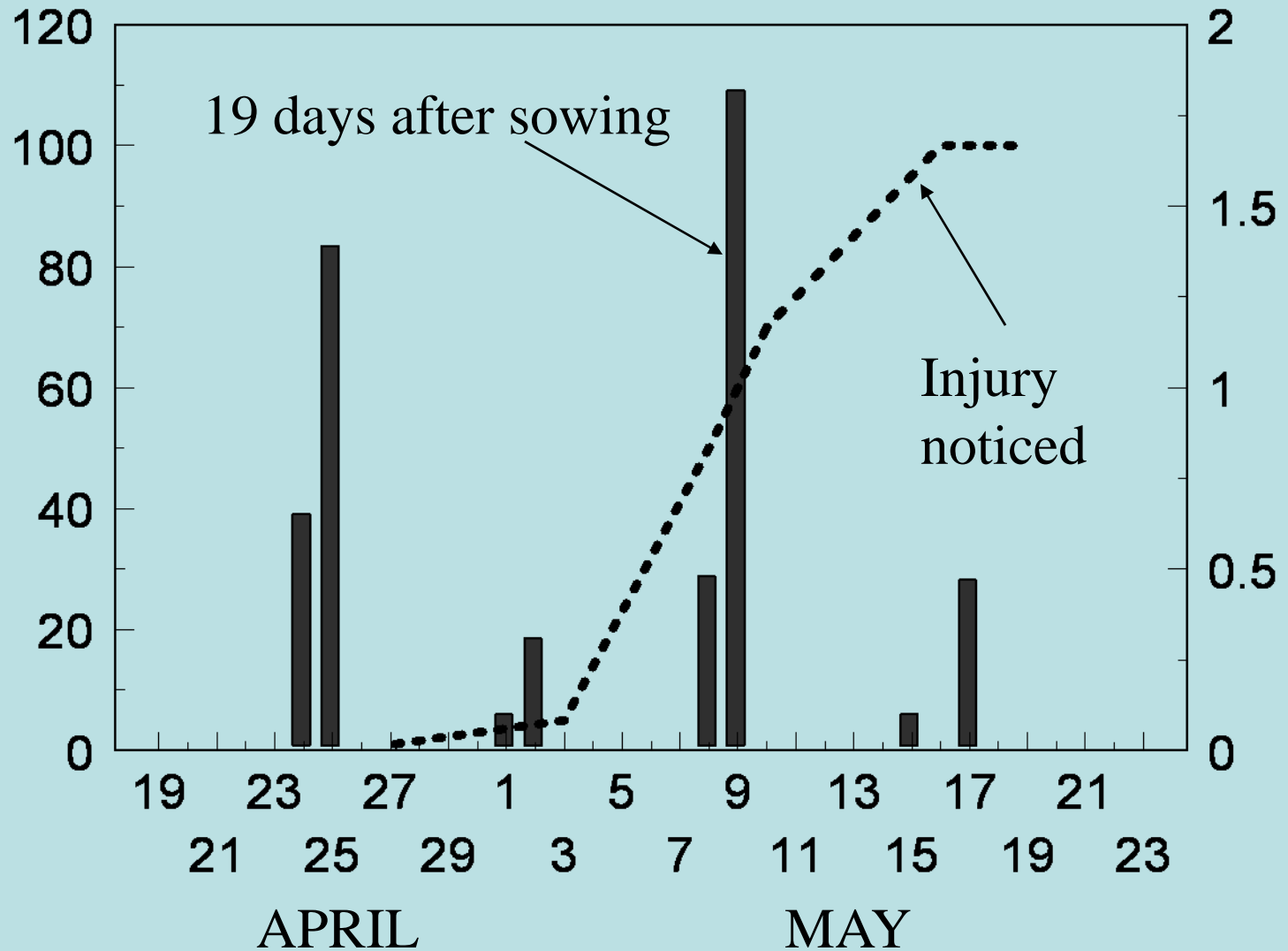
No Agrilock = Goal Injury - 2007



4 oz/acre of GOALTENDER (at sowing)

Germination (%) -line

Rainfall (in) - bar







1 quart per acre (0.5 lb a.i./acre) at sowing...
(some apply 2 quarts per acre)

After soil stabilizer..... with soil stabilizer

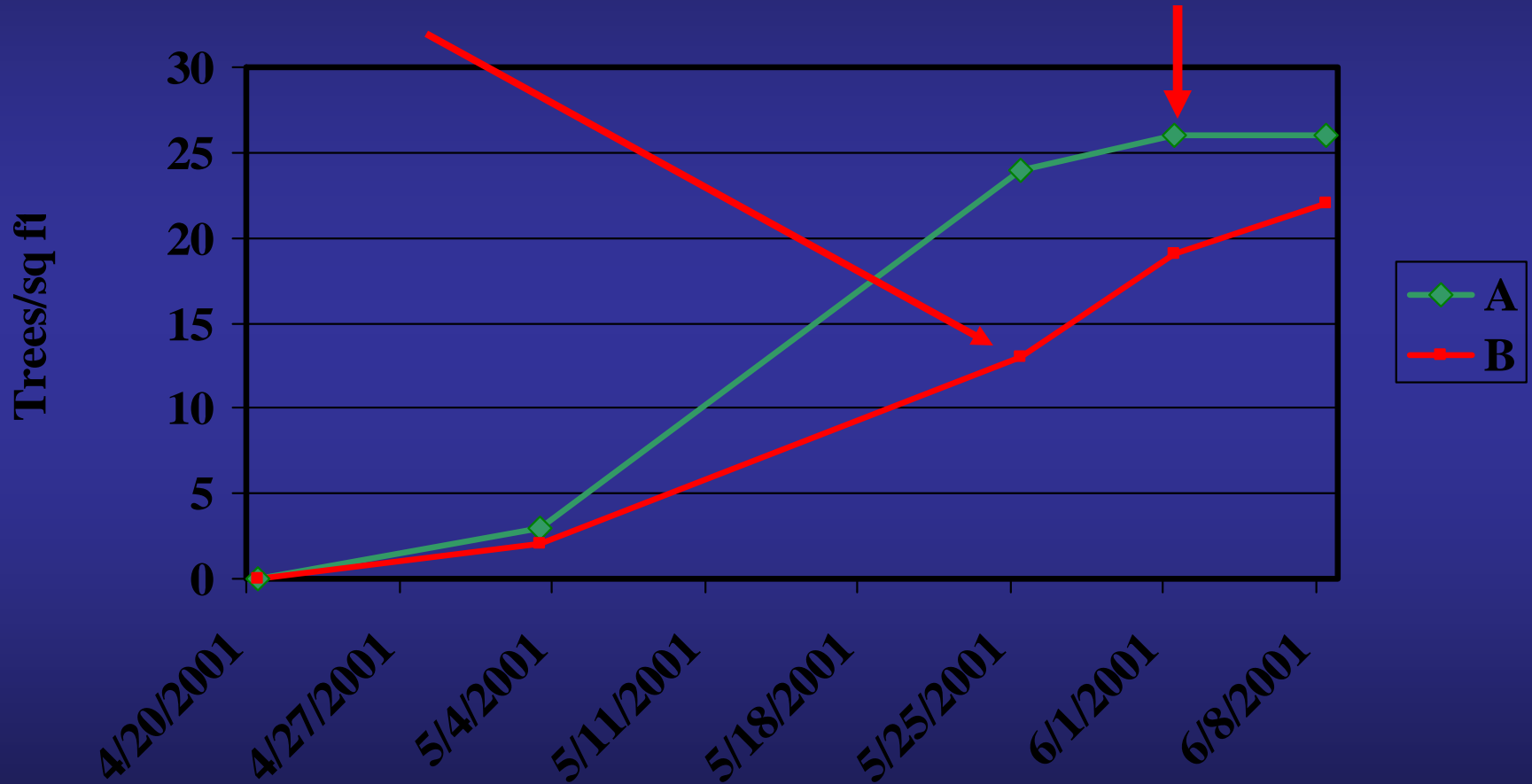
Before mulching with bark (South) but some
apply after mulching with bark.

When to apply first postemergence application?

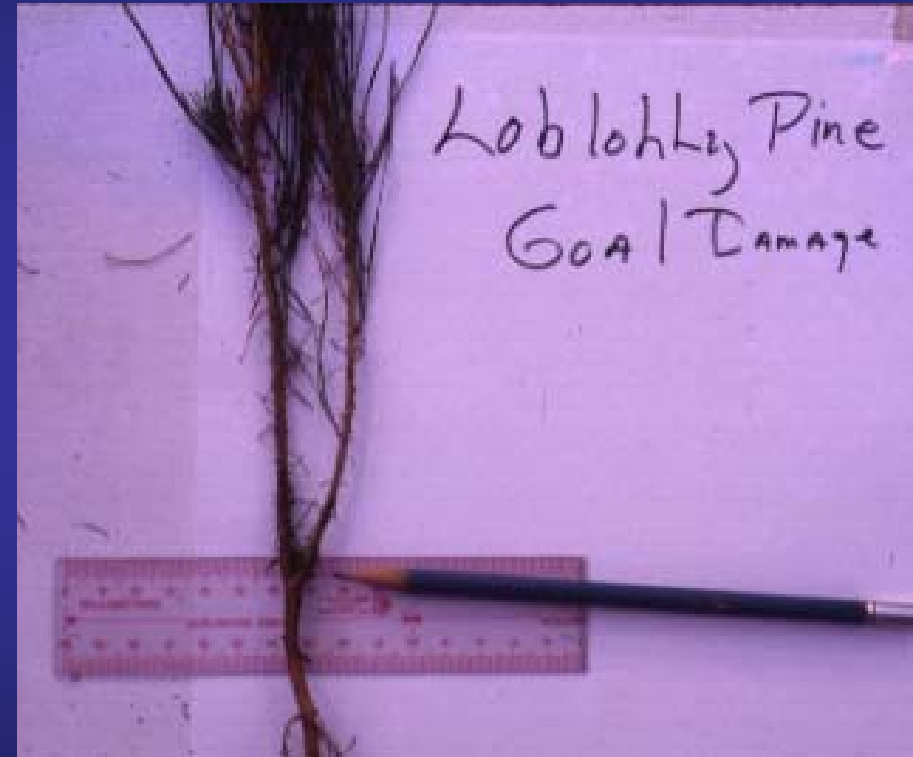


When to apply first application of GoalTender

Goal 2XL



Goal EC injury applied too soon





Goal 4F



Table 2: Morphological characteristics for loblolly pine seedlings lifted on September 23 at the Elberta Nursery (seedlings treated 3 weeks after sowing).

Oxyfluorfen Rate lbs. Ai/acre	Density (#/sq ft)	RCD (mm)	Height (cm)	Root (g)	Shoot (g)	Total dry weight (g/sq ft)
0	16.2	3.4	24.8	0.17	1.79	31.53
0.5	16.9	3.3	24.7	0.17	1.73	32.01
1.0	18.0	3.4	25.4	0.16	1.75	34.07
2.0	14.6	3.4	25.0	0.16	1.79	27.79
<i>lsd</i>	<i>2.749</i>	<i>0.208</i>	<i>1.079</i>	<i>0.044</i>	<i>0.278</i>	<i>4.170</i>
P > F-value	0.103	0.833	0.492	0.890	0.934	0.042
Linear	0.366	0.873	0.435	0.457	0.936	0.156
Quadratic	0.038	0.385	0.564	0.881	0.552	0.028
Lack-of-fit	0.257	0.877	0.236	0.931	0.850	0.127

Goal EC injury



What caused this injury?



Co-distillation of Goal 2XL under certain weather conditions

 Dow AgroSciences





1 gallon = \$192



2 gallons = \$192

NEW GoalTender herbicide

GoalTender herbicide contains the same active ingredient as Goal 2XL, oxyfluorfen. However, GoalTender is formulated as a water-based flowable and is a 4 lb a.i./gallon material (Goal 2XL is a 2 lb a.i./gallon material). The unique formulation of GoalTender reduces the potential for "lift-off" (or co-distillation), increasing the safety to adjacent crops. GoalTender has effectively no odor.

Why does Dr. South recommend weekly applications?





Weekly applications

Goal fertilizer tank-mix

Lbs oxyfluorfen/acre

• June 15	10-1-14 (+2.5% S)	0.125
• June 22	10-1-14 (+2.5% S)	0.125
• June 29	10-1-14 (+2.5% S)	0.125
• July 6	10-1-14 (+2.5% S)	0.125
• July 13	10-0-8 (+4% S)	0.125
• July 20	10-0-8 (+4% S)	0.125
• July 27	10-0-8 (+4% S)	0.125
• Aug 3	10-0-8 (+4% S)	0.125
• Aug 10	10-0-8 (+4% S)	0.125
• Aug 17	10-0-8 (+4% S)	0.125
•	Total post	1.25 lbs

Broken herbicide barrier...
not on a weekly spray schedule



Why do we spray Goal 2XL on Friday morning?



Why do we spray Goal 2XL on Friday morning?

CONIFER SEEDBEDS

Agricultural Use Requirements: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Goal 2XL provides both postemergence and residual preemergence control of many broadleaf weeds and annual grass species.

Questions?

