Forest and Wildlife Research Center Mississippi Forest Products Laboratory

Evaluation of Treated Hardwoods in Field Stake Tests Seventh Annual Reading of Stakes

Submitted to:

Mr. Jim Gauntt Railway Tie Association 115 Commerce Drive Suite C Fayetteville, GA 30214



Submitted by:

Dr. H.M. Barnes & Dr. T.L. Amburgey
Box 9820
Mississippi State, NIS 39762-9820
Phone: 662-325-3056
Fax: 662-325-8126
e-mail: barnes@fpl.msstate.edu

May 18,1999

EVALUATION OF TREATED HARDWOODS IN FIELD STAKE TESTS SEVENTH ANNUAL READING OF STAKES

This report covers the seventh annual reading of stakes installed in the Dorman test plot in 1992. Average stake ratings are summarized in Tables 1 and 2 for the 0.7511 and 2x4 stakes respectively. Individual stake data are presented in the appendix.

TABLE 1. RTA 3/4" stake da	ta summa	· 🖰 '	T I	Δ.	(u)		GE 1	,		į		1 1 1	;
	090E	APR	φ;		94	ΛPR	295	M	96			APR	96
ATM	정:	080					1837	DBC	155	080	TER	DBC:	TER
SOUTHERN YELLOW PINE			(2)					# 2 -	₽	14	44	o i	0
		100	130	96		91	99	74	σ ,	0	36	വ	70
	N		-00		96		10 (94	\vdash 1		72	73
	LOG I	96	,00		100		01		(C)	ψ. 1	(O)	₽.	94
	(2)	0	100	0	(C)	01	ψ.	100	Φ·	\$:	666	96	91
RED OAK	6	AD 1	9					28	Φı	4	۱ وي	ភ រ	2
	1.94		200	97	\circ	92	97	87	ا فيا	-31	OD I	61	80
		0	100			94		88	ъ,	80	io,	UΠ	8
			100	0	100	96		9	-	91	W.	7	95
	· 41	100	100	0	0	97	10		On t	D	10 1	Ω 1	93
SWEET GUM		J i	88		1		57:		0	0	6	al	
	2.02	: 	100	96		84				(A)		1 m21	83
		8	100	96			97	81	100	91	(Q)	29	(B)
		0'	0:							00-1	9		69
	10.63	100	100	100	100	98	100	96	99	9		~J 1	19 P

	(CREOSOTE		ψ	APR		APR	10	MAY	to.	MAY	ω	APR	Ġ.
TREATMENT		e i			TEX	1	TER	DEC	Dad		DEC	Ĭ.	ᇤ
TUPESO GUM		!	7.6	2	71	7	26	4	Ø 1	0	#	0	
	2.06	!	100				9.6		ത	65	B I		
		100	100	97	100	90	ប្រ	85	6	76	89		
		Φ.	100	100	100	66	100	96	ωı	15	9	81 ;	
		100	100	100	100		100	100				89	98
SUGARBERRY		6.2	94	12	-1 5− 1	0	ъ.	٥		01	o l	o¦	
	1.93	0	100	97	98	on i	VOI	37		19	36	•	
	4.01		100	86	0		99	76		ייני מער	D 1	o i	
	7,40	000	100		9	9		98	9	. 78	96	Δ1 ω 1	89
	11.25	100	130		100	99	100	97		wi	9	83	
RED MAPLE	0.00	90	φ.			S)		N		0 1	į	0	
	2.29	100	100	96	99			98	NO I	-73 I	92	មារ	
	4.68	200	100		100	95	97	91	100	W i	100 1	71	92
	7,98	100	1,00	99	100	\$6	100	93	(Q)	OI	10 1	0	
	12.38	1100	100	100	100	56	100	96		(C)	91		68

TABLE A. RIF AXX Q	aata summary-	uT-	lled s-	13-9	•										
 		CREOS			166	AFI	94	API	295	APR	(0) t	<u>\$</u> ;	w :	APR	99
TREATMENT	BCIES	H ₁ i	(pcf)	DEC		DEC	TEX	DEC	Hi +	0344	띰	DEC	. I	<u>^^ </u>	raf L
TOTUENE CONTROLS	UGARB	0	01	86	N:	13	72	2	15.	٥		2;	0		a!
	RED OAK	0.00		94	901	78	77	63	100 P	48	(B)	221	41	o i	4.70
TIMBOR	Q.			95		57	83	27	Lab I	i	~) I	_;_	7-	O 1	-10 1
	RED OAK	0.00	0.20	66	ωı		8	82	⊞ 1	<u>ተ</u> ከ 1	⊘ 11	-	7:	12	50 T
P2 CREOSOTE	SUGARBERRY	1.87		100	100	99	UO I	95	UT I	-J 1	9:	56	<u>ئ</u> ئ	16	31
		4	101	120	100	01	001	96	981	10.4	UT I	2	<u>ω</u>	58 -	81
		9.11	Ō	100	100	100	100	100	01	NO I	OD 1	<u> 1</u>	œ :	81-4	82
		- i	0.00	100	100	100	100	86	0:	to r	OD 1	94-	# ;	85-	9:
TIMEOR IN CREOSOTE	SUGARBERRY	1.94	0,16	120	100	94	98 1	· WI	(F)	~1 I	ന	91	-	27	31
		3.86	0.16	100	100	96	100	E6	91	91	\vdash	On a	<u> </u>	4	CO I
		6.85		1.00	100	0	0	96	0	10.1	01	90 i	ا 1	4	891
		11.25	0.19	100	100	100	100		0	Other 1	(C) 4	144 145 1	_ —∔	6.5	96
TIMBOR FOLLOWED	SUGMRBERRY	0.00	0.10	36	90	46	77	18	0		NJ I		ᆣ	0	0;
BY CREOSOTE		2.02		120	100	ነ ነው ፣	99	87	∞ •	~J :	ا ندا	7:	- F	50	91
				100	100	86	100		(40)	OD 1	· UI ·	78	<u>-</u>	55	ו בק
			ı 🏳 I	100	100	99	100		· (p)	100 1	LONG R	77	ر ا	-1: -1: -1: -1:	92
	-	10.31	0.09	1200	100	100	100	46	i Çni	10.1	ויסט'ו	92		83	96
		0.00	0.23	96	98	84	. 🗘	22	I #₽- I		J	0	7	0	0;
				100	1.00	93	100	98	(D)	: OD 1	1 VQ 1	61	[j] 	K) I	~1 P
		4.05	0.20	001	100	99	100		ı Qol	1 00 1	السنا	72		52	8
		67.67	0.21	i non	100	99	100	97	ı No	സ	· W	 	7	68	9
		11.44	0.21		0	100	. •	100	0	r ka	. 0	\	(((((((((((((((((((- - -	96
		0.00	0.41	98				14	ር የ		ூரு	G		6	0 1
		1.89	0.41	100	0	36	100	48	O 1	73	l VΩ i	(0)	74	Un r	∞ .
		98 .	0.40	100	100	96	100	87	. 10	65	91	4-1	87	5 1	90
	······	7,09	0.42	100	100	99	100	96	99	89	95	4	92		83
		9.71	0.43	100	100	99	99	99	9	95	96	<u>.</u>	97	원 	~4