

# University of Tennessee

## LIBERTY / SOY / EFFICACY / RESIDUAL - Madison Co.

Location: West TN Research and Education Center - Jackson

Variety: LL4850 (planted 5/5/15)

Application: A 5/5/15; B 5/27/15; C 6/2/15; D 6/17/15; CO2 pressurized backpack sprayer (15 gpa, 30 psi, 11003 AIXR)

Plots: 7.5 ft x 30 ft (RCBD 4reps)

Rating scale of 0-100 (% control of weed)

Pest Name	Palmer amaranth	Palmer amaranth	Pitted mg	Yellow nutsedge	Palmer amaranth
Rating Date	5/20/2015	6/6/2015	6/6/2015	6/6/2015	6/10/2015
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Trt-Eval Interval	15 DA-A	10 DA-B	10 DA-B	10 DA-B	8 DA-C
Treatment	Rate	Appl			
1 UNTREATED			0	0	0
			c	b	b
2 AUTHORITY FIRST	6.5 oz/a	A	99	97	98
			a	a	a
LIBERTY 280	29 oz/a	C			
AMS	8.5 lb/100 gal	C			
LIBERTY 280	29 oz/a	D			
AMS	8.5 lb/100 gal	D			
3 FIERCE	3.5 oz/a	A	99	99	88
			a	a	a
LIBERTY 280	29 oz/a	C			
AMS	8.5 lb/100 gal	C			
LIBERTY 280	29 oz/a	D			
AMS	8.5 lb/100 gal	D			
4 VALOR XLT	3.5 oz/a	A	99	99	94
			a	a	a
LIBERTY 280	29 oz/a	B			
ZIDUA	2 oz/a	B			
AMS	8.5 lb/100 gal	B			
LIBERTY 280	29 oz/a	D			
AMS	8.5 lb/100 gal	D			
5 LIBERTY 280	29 oz/a	B	0	99	96
			c	a	a
PREFIX	32 oz/a	B			
AMS	8.5 lb/100 gal	B			
LIBERTY 280	29 oz/a	C			
WARRANT	48 oz/a	C			
AMS	8.5 lb/100 gal	C			
6 OPTILL	2 oz/a	A	99	99	96
			a	a	a
OUTLOOK	10 oz/a	A			
LIBERTY 280	29 oz/a	C			
AMS	8.5 lb/100 gal	C			
LIBERTY 280	29 oz/a	D			
AMS	8.5 lb/100 gal	D			
7 ENVIVE	4 oz/a	A	99	99	99
			a	a	a
LIBERTY 280	29 oz/a	B			
OUTLOOK	14 oz/a	B			
AMS	8.5 lb/100 gal	B			
LIBERTY 280	29 oz/a	D			
AMS	8.5 lb/100 gal	D			
8 LIBERTY 280	29 oz/a	B	0	99	94
			c	a	a
OUTLOOK	14 oz/a	B			
AMS	8.5 lb/100 gal	B			
LIBERTY 280	29 oz/a	C			
WARRANT	48 oz/a	C			
AMS	8.5 lb/100 gal	C			
9 VERDICT	5 oz/a	A	97	99	88
			ab	a	a
LIBERTY 280	29 oz/a	C			
AMS	8.5 lb/100 gal	C			
LIBERTY 280	29 oz/a	D			
AMS	8.5 lb/100 gal	D			
10 SHARPEN	1 oz/a	A	97	99	87
			ab	a	a
LIBERTY 280	29 oz/a	C			
AMS	8.5 lb/100 gal	C			
LIBERTY 280	29 oz/a	D			
AMS	8.5 lb/100 gal	D			

11	ZIDUA	2	oz/a	A	96	ab	99	a	99	a	87	a	99	a
	LIBERTY 280	29	oz/a	C										
	PREFIX	1	qt/a	C										
	AMS	8.5	lb/100 gal	C										
	LIBERTY 280	29	oz/a	D										
	AMS	8.5	lb/100 gal	D										
12	METRIBUZIN	4	oz/a	A	91	b	99	a	99	a	87	a	99	a
	LIBERTY 280	29	oz/a	C										
	ZIDUA	2	oz/a	C										
	AMS	8.5	lb/100 gal	C										
	LIBERTY 280	29	oz/a	D										
	AMS	8.5	lb/100 gal	D										

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Pitted mg 6/10/2015 CONTROL 8 DA-C	Palmer amaranth 6/26/2015 CONTROL 9 DA-D	Pitted mg 6/26/2015 CONTROL 9 DA-D	Yellow nutsedge 6/26/2015 CONTROL 9 DA-D
0	b	0	c
90	a	97	a
99	a	98	a
98	a	99	a
97	a	95	a
91	a	99	a
96	a	96	a
95	a	98	a
88	a	99	a
94	a	99	a

99	a	98	a	99	a	98	a
93	a	99	a	99	a	95	a