

*Welcome
to the*

WeedSOFT CASINO

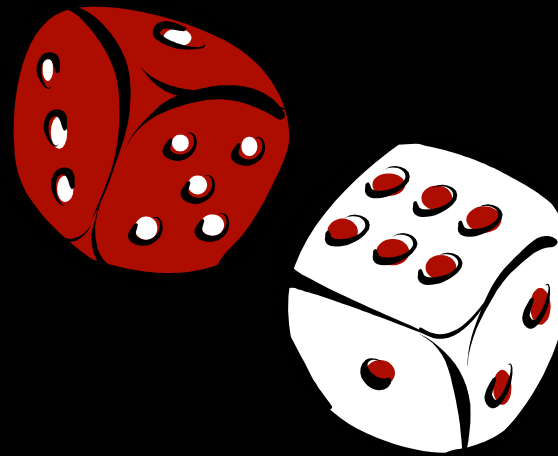
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Extension Weed Scientist

University of Wisconsin

WeedSOFT

Remove the "Gamble" from weed
management



WeedSOFT Casino

- Weed competition
 - Weed densities, size, species – yield loss
 - Early season yield loss
 - Treatment thresholds
- Product filters
 - Rotational restrictions, atrazine restrictions, ground water restrictions, crop growth stages
- Economic returns
 - Herbicide efficacy and costs
 - Net **VALUE**

Field Information

Field: _____

Grower: _____

Business: _____

Today's: _____

Help

Crop Information

Crop: **Corn** | Crop Growth Stage: _____

Are you planning to plant this crop? Maybe - No - Corn Yes - Herbicide emerged & emerged.

Variety: _____

Planting Date: _____

Row Spacing: _____

Crop Selling: _____

Weed Free: _____

Application Information

Treatment Types: Pre-Em Post-Em | Application Date: _____

Rotation Crops and Prohibitions

Rotation Restrictions: _____ | Prohibition: _____

You may choose Rotation Crops for up to 3 years in past Ne _____

Weed Information - for Corn => V1

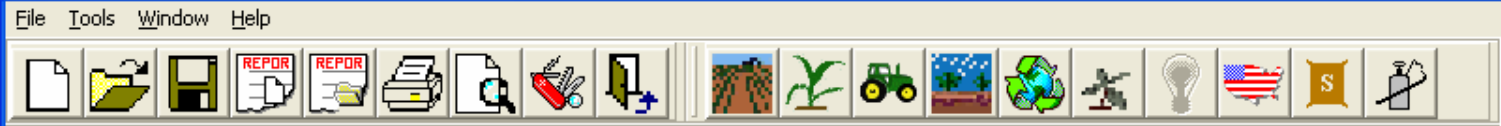
Weed Name: [None] | Weed Density: _____ Weeds/100 sq. feet | Size: [None] | Add Weed

Yield Loss From Early Weed Competition: 0.5 Bu/A | Calculate Yield Reduction

Potential Yield Reduction: 53.5 Bu/A

Weed Name	Est. Weed Pop.	Weed Size	Yield Reduction
Foxtail, Giant	250.0	2 - 4 inches	53.5

Help | Edit Weed Data | Remove Weed | Clear List | Cancel | Close



WeedSOFT Recommendations -- Treatment Rank: 1 of 57

Treatment: **Option + MSO + AMS(POST)** Net Gain: **\$105.72**

Rate: **1.5 OZ + 1.5 PT + 2 LB(POST)/Acre** PMY: 89%

Print Options
 Treatment
 List

Save Treatment Record

Total Cost/A: \$8.27

Show All Treatments Remove Tech Cost Warnings Close

Treatment Name	Rate/Planted Acre	✓ Net Gain	PMY	Crop Safety
Option + MSO + AMS(POST)	1.5 OZ + 1.5 PT + 2 LB(POST)/Acre	\$105.72	89	2
Basis + COC + 28% UAN(POST)	0.33 OZ + 1 QT + 2 QT(POST)/Acre	\$99.91	89	3
Option + Clarity + MSO + AMS(POST)	1.5 OZ + 0.5 PT + 1.5 PT + 2 LB(P...	\$99.85	89	2
[glyphosate] + AMS(POST)	32 OZ + 2 LB(POST)/Acre	\$96.45	90	1
Option + Distinct + MSO + AMS(POST)	1.5 OZ + 4 OZ + 1.5 PT + 2 LB(PO...	\$95.80	89	2
Callisto + Steadfast + COC + AMS(P...	3 OZ + 0.75 OZ + 0.8 QT + 1.7 LB(...	\$95.18	89	2
Option + Callisto + MSO + AMS(POST)	1.5 OZ + 3 OZ + 1.5 PT + 2 LB(PO...	\$94.07	89	2
[glyphosate] + Atrazine 90DF + AMS(...	32 OZ + 0.83 LB + 2 LB(POST)/Acre	\$94.01	89	1
Cultivate only	N/A	\$92.37	85	1

Weed Name and Seedbank Estimation	Weed Population		Bushels Lost/A		Dollars Lost/A		% Control
	Before	After	Before	After	Before	After	
Foxtail, Giant	250.0	25.0	25.1	5.4	\$62.75	\$13.38	90.0%
Lambsquarters, Common	200.0	30.0	30.1	5.7	\$75.25	\$14.19	85.0%
Velvetleaf	50.0	7.5	6.3	4.9	\$15.75	\$12.19	85.0%
TOTALS:	500.0	62.5	61.5	16.0	\$153.75	\$39.76	

WeedSOFT Casino

Starting Bankroll: \$1,000

- Ponies \$200 \$ _____
 - Black Jack \$400 \$ _____
 - Roulette \$600 \$ _____
 - Craps \$800 \$ _____
 - Slots \$1,000 \$ _____
 - Texas Hold'em \$2,000 \$ _____
-
- Final Bankroll \$ _____

Play the Ponies

Which weed has the greatest competitive ability against 12 inch corn?

	<u>#/100 ft²</u>	<u>Bu/a</u> <u>lost</u>
1. Giant ragweed – 12"	5	?
2. Giant foxtail – 8"	50	
3. Crabgrass – 2"	300	
4. Lambsquarters – 4"	100	
5. Woolly cupgrass – 8"	50	

Play the Ponies

Which weed has the greatest competitive ability against 12 inch corn?

	<u>#/100 ft²</u>	<u>Bu/a</u> <u>lost</u>
1. Giant ragweed – 12"	5	11
2. Giant foxtail – 8"	50	20
3. Crabgrass – 2"	300	16
4. Lambsquarters – 4"	100	31
5. Woolly cupgrass – 8"	50	12

Black Jack - Double Down

2 grasses vs 1 broadleaf – Who's Worse?

	<u>#/100 ft²</u>	<u>Bu/a</u> <u>lost</u>
1. Giant foxtail – 8"	50	
+	+	
Crabgrass – 2"	300	?
2. Lambsquarters – 4"	100	?

Black Jack - Double Down

2 grasses vs 1 broadleaf – Who's Worse?

	<u>#/100 ft²</u>	<u>Bu/a</u> <u>lost</u>
1. Giant foxtail – 8"	50	
+	+	
Crabgrass – 2"	300	30
2. Lambsquarters – 4"	100	31

Herbicide Roulette

Best return for postemergence
lambsquarters control in corn – Pick the
winner!

	<u>Cost/a</u>	<u>Gain/a</u>
1. Liberty 28 oz/a	\$24	?
2. Atrazine 0.8 lb/a	\$8	
3. Accent 0.67 oz/a	\$29	
4. Cultivate	\$5	
5. Callisto 3 oz/a	\$20	

Herbicide Roulette

Best return for postemergence
lambsquarters control in corn – Pick the
winner!

	<u>Cost/a</u>	<u>Gain/a</u>
1. Liberty 28 oz/a	\$24	\$51
2. Atrazine 0.8 lb/a	\$8	\$70
3. Accent 0.67 oz/a	\$29	\$-7
4. Cultivate	\$5	\$63
5. Callisto 3 oz/a	\$20	\$58

CRAPS Pick the winner!

Lambsquarters and foxtail control; coarse soil, 1% OM, 10 ft to groundwater, 7.5 pH, alfalfa next year

	<u>Cost/a</u>	<u>Gain/a</u>
1. Lumax	\$33	?
2. Bicep Lite II Mag	\$20	
3. Harness + Hornet	\$35	
4. Prowl	\$10	
5. Prowl + Atrazine	\$13	

CRAPS Pick the winner!

Lambsquarters and foxtail control; coarse soil, 1% OM, 10 ft to groundwater, 7.5 pH, alfalfa next year

	<u>Cost/a</u>	<u>Gain/a</u>
1. Lumax	\$33	
2. Bicep Lite II Mag	\$20	
3. Harness + Hornet	\$35	
4. Prowl	\$10	\$98
5. Prowl + Atrazine	\$13	

Slots

4" Lambsquarters in 12" corn; \$20/a

Callisto

Lowest density that exceeds the economic threshold?

	<u>#/100 ft²</u>	<u>Gain/a</u>
1.	100	?
2.	50	
3.	20	
4.	10	
5.	5	

Slots

4" Lambsquarters in 12" corn; \$20/a

Callisto

Lowest density that exceeds the economic threshold?

	<u>#/100 ft²</u>	<u>Gain/a</u>
1.	100	\$58
2.	50	\$27
3.	20	\$2
4.	10	\$-9
5.	5	\$-14

Texas Hold'em

- How long can you bluff before you lose your shirt to early season weed competition; yield that cannot be regained?

Texas Hold'em

- Which case has the max loss from early season lambsquarters if sprayed now and controlled for the rest of the season?
 - 50 bu/a soybean at \$5/bu; 200 bu/a corn at \$2.50

	<u>LQ</u>	<u>#/100 ft²</u>	<u>\$/a loss</u>
1. V2 soybean	3"	300	?
2. R1 soybean	8"	100	
3. V2 corn	3"	600	
4. V4 corn	6"	300	
5. V6 corn	8"	50	

Texas Hold'em

- Which case has the max loss from early season lambsquarters if sprayed now and controlled for the rest of the season?
 - 50 bu/a soybean at \$5/bu; 200 bu/a corn at \$2.50

	<u>LQ</u>	<u>#/100 ft²</u>	<u>\$/a loss</u>
1. V2 soybean	3"	300	\$2
2. R1 soybean	8"	100	\$13
3. V2 corn	3"	600	\$6
4. V4 corn	6"	300	\$15
5. V6 corn	8"	50	\$8

Final Jeopardy – Speed Round

Tank mix calculator –

80 acres to be sprayed

400 gallon sprayer

calibrated at 20 gal/a

Clarity applied at 0.5 pt/a

How many pints to add to each spray tank?

Final Jeopardy – Speed Round

Tank mix calculator –

80 acres to be sprayed

400 gallon sprayer

calibrated at 20 gal/a

Clarity applied at 0.5 pt/a

How many pints to add to each spray tank? **10 pints**

WeedSOFT Casino

Starting Bankroll: \$1,000

• Ponies	\$200	\$ <u>1,200</u>
• Black Jack	\$400	\$ <u>1,600</u>
• Roulette	\$600	\$ <u>2,200</u>
• Craps	\$800	\$ <u>3,000</u>
• Slots	\$1,000	\$ <u>4,000</u>
• Texas Hold'em	\$2,000	\$ <u>6,000</u>
<hr/>		
• Final Bankroll		\$ <u>6,000</u>

WeedSOFT 2005

- ✓ \$50 new purchase + shipping
- ✓ \$40 renewal + shipping
- ✓ Educational discounts

<10 \$30 each + shipping

10-19 \$25 each + shipping

20-29 \$20 each + shipping

30+ \$15 each + shipping

- ✓ Available January 2005
- ✓ Order on line at <http://weedsoft.unl.edu>