Can Integrated Weed Management Technologies Match the Competition?

Chris Boerboom
Extension Weed Scientist
University of Wisconsin

Integrated Weed Management

UW Extension

Where's the IWM?

Why scout? Glyphosate controls them all.

Where's the IWM?

Corn	75 million acres
+ Soybean	+ 71 million acres
Summer annual monoculture crop	146 million acres

Glyphosate-Resistant Weeds

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Where’s the IWM?

Tillage:

- Seedbed tillage
- Rotary hoeing
- Row cultivation

Where's the IWM?

One Size (and Program) Fits All

Guarantee Programs and Warranties

Consolidated Retail Infrastructure

1928 Dane Co. Farm Bureau Coop

↓ Dane Co. Coop Farm Supply

1964 Dane Co. Farmco Cooperative

1982 ↓ Green Prairie FS Coop

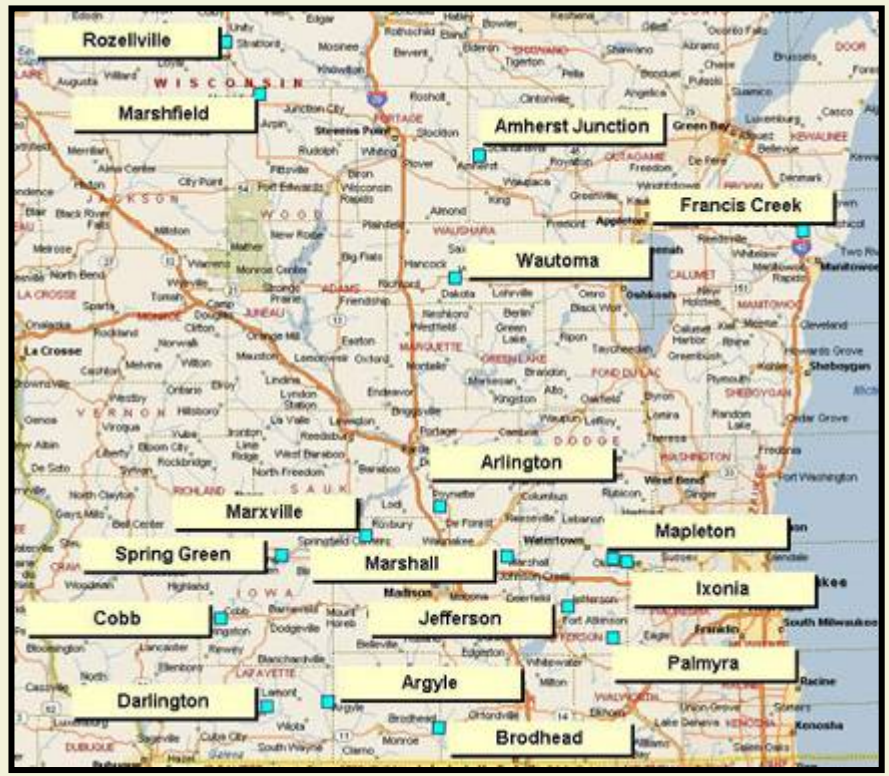
Danco FS Cooperative

1997 ↓ Green Rock FS Coop

2000 ↓ Agri-Tech FS Coop

2003 ↓ Jefferson Co. Farmco

Frontier FS Cooperative



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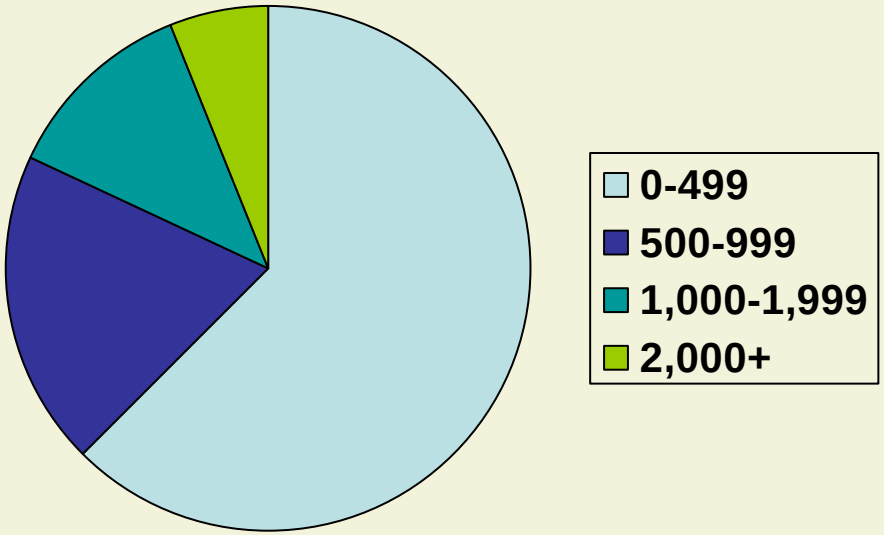
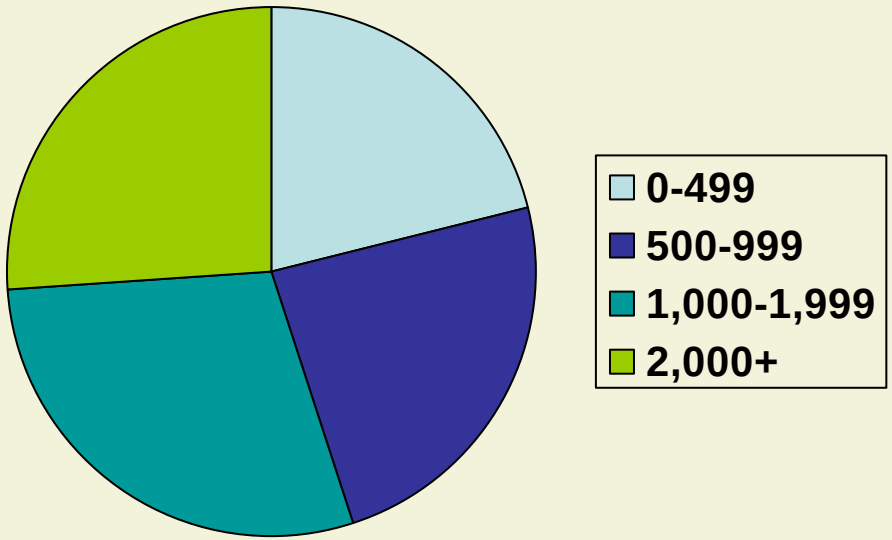
Increasing Farm Size

Corn Farms for Grain

Percent of farms by size



Percent of corn acres by farm size



NASS Census 2002

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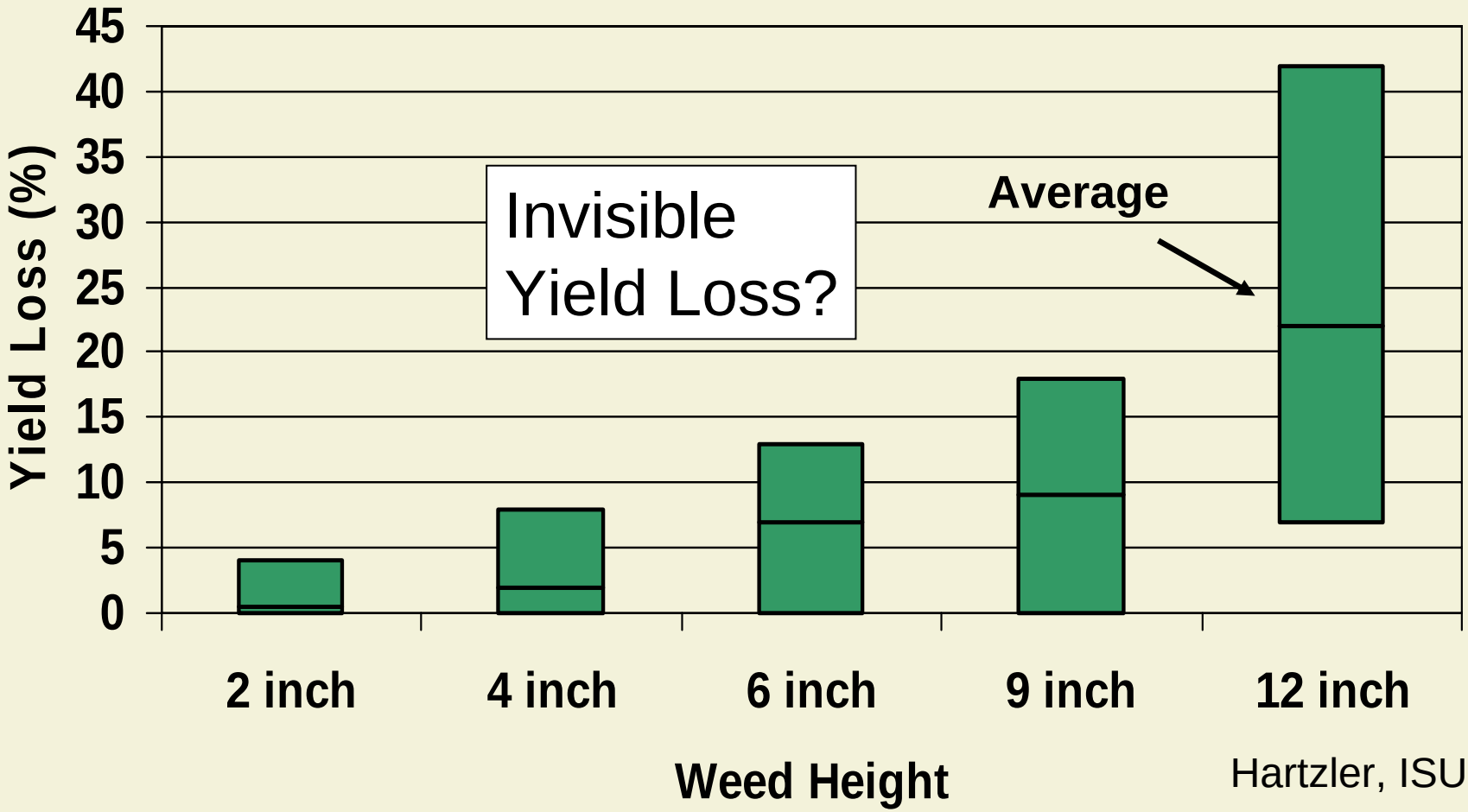
Risk of Late Herbicide Applications

Early Season Weed Competition on Corn Yield



Hartzler, ISU

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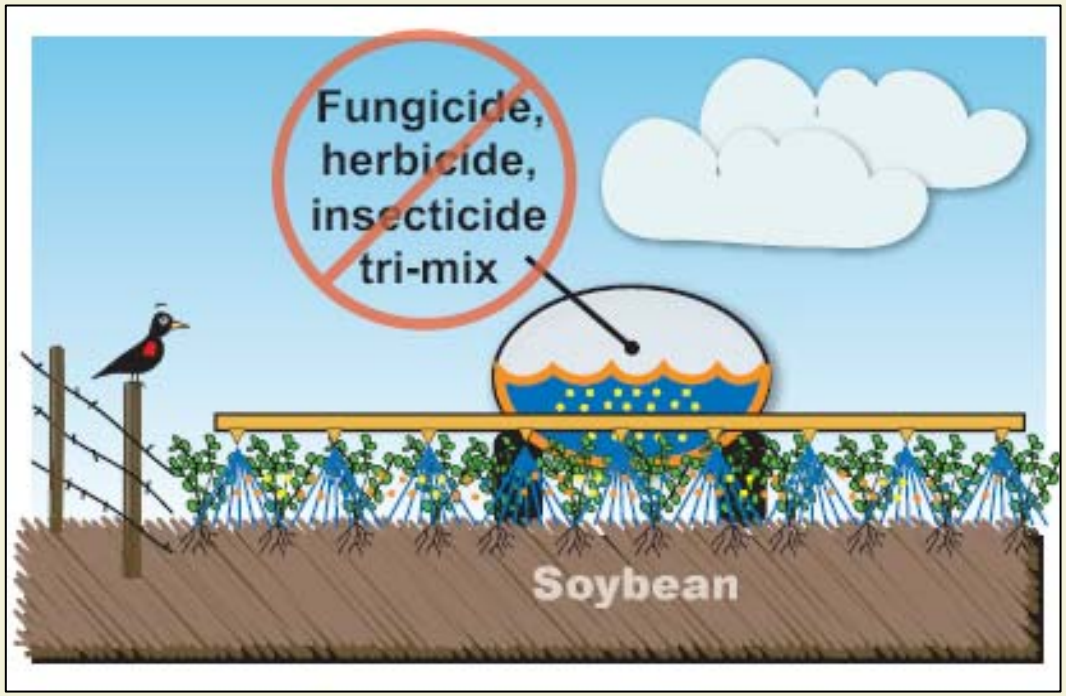
Weed-Insect-Disease Management

Avoid a tank tri-mix on soybeans



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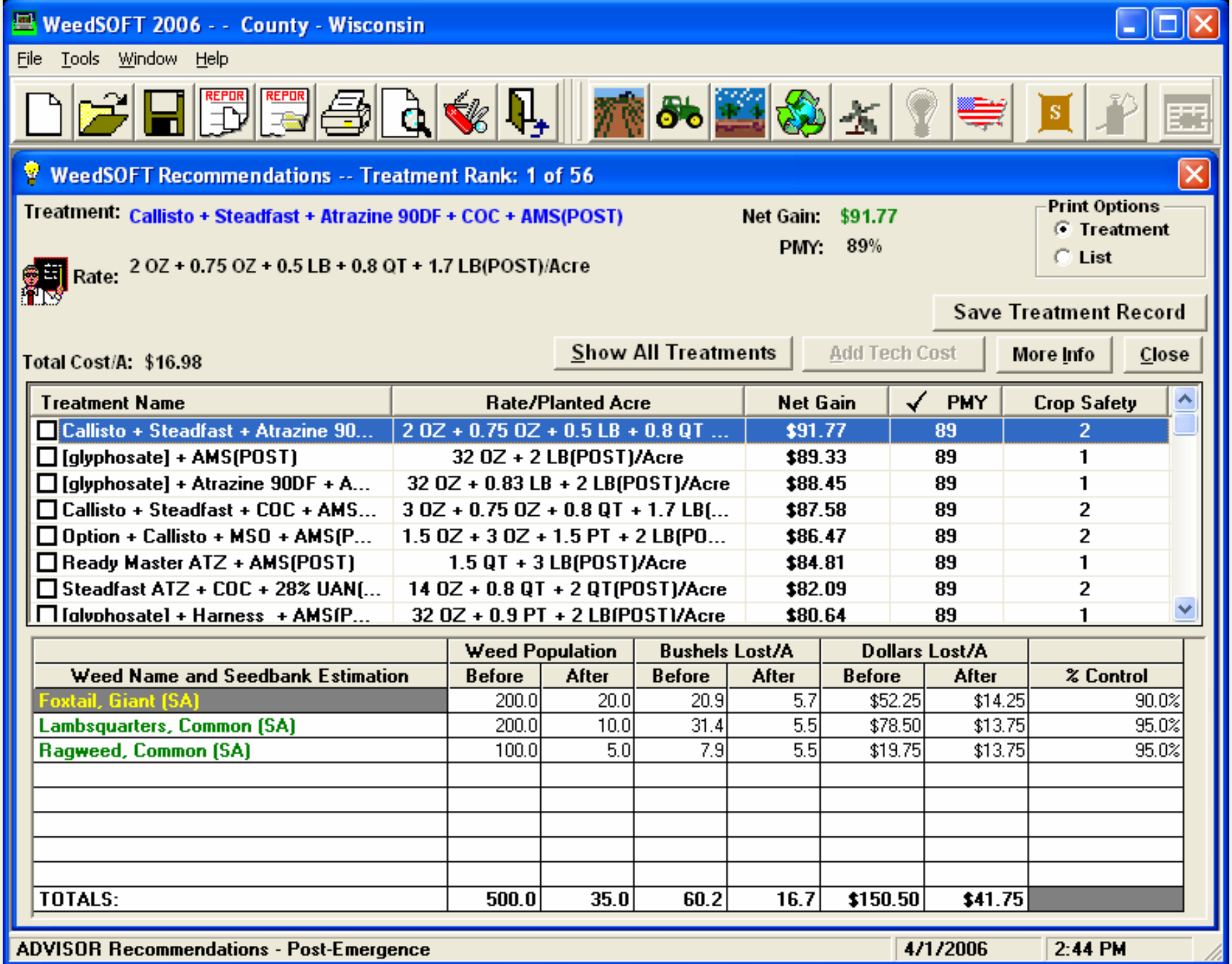
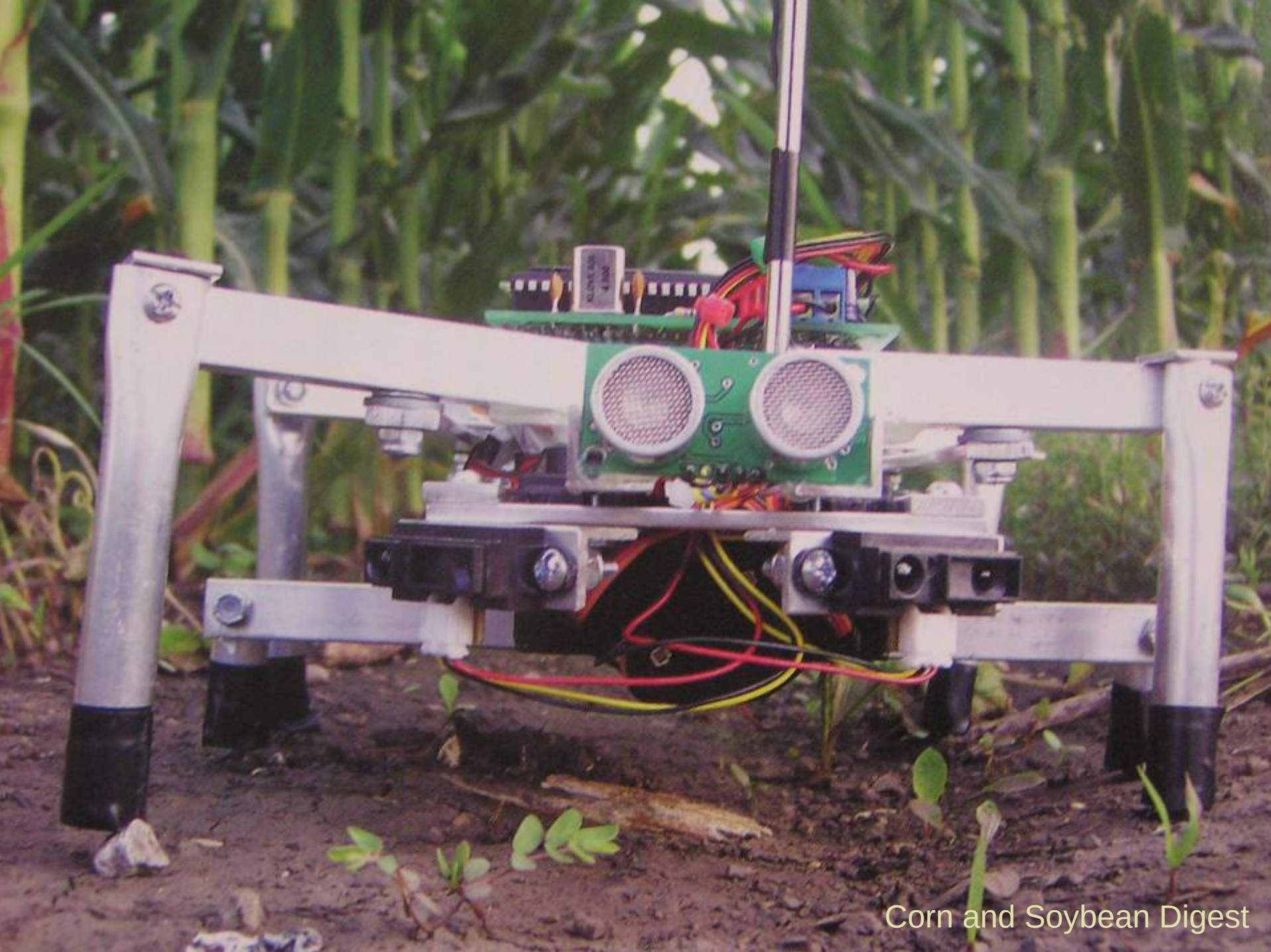

WeedSOFT 2006 - - County - Wisconsin
File Tools Window Help
WeedSOFT Recommendations -- Treatment Rank: 1 of 56
Treatment: Callisto + Steadfast + Atrazine 90DF + COC + AMS(POST)
Net Gain: $91.77
PMY: 89%
Print Options
Treatment
List
Rate: 2 OZ + 0.75 OZ + 0.5 LB + 0.8 QT + 1.7 LB(POST)/Acre
Save Treatment Record
Total Cost/A: $16.98
Show All Treatments
Add Tech Cost
More Info
Close
Treatment Name | Rate/Planted Acre | Net Gain | PMY | Crop Safety
Callisto + Steadfast + Atrazine 90... | 2 OZ + 0.75 OZ + 0.5 LB + 0.8 QT ... | $91.77 | 89 | 2
[glyphosate] + AMS(POST) | 32 OZ + 2 LB(POST)/Acre | $89.33 | 89 | 1
[glyphosate] + Atrazine 90DF + A... | 32 OZ + 0.83 LB + 2 LB(POST)/Acre | $88.45 | 89 | 1
Callisto + Steadfast + COC + AMS... | 3 OZ + 0.75 OZ + 0.8 QT + 1.7 LB(... | $87.58 | 89 | 2
Option + Callisto + MSO + AMS(P... | 1.5 OZ + 3 OZ + 1.5 PT + 2 LB(PO... | $86.47 | 89 | 2
Ready Master ATZ + AMS(POST) | 1.5 QT + 3 LB(POST)/Acre | $84.81 | 89 | 1
Steadfast ATZ + COC + 28% UAN(... | 14 OZ + 0.8 QT + 2 QT(POST)/Acre | $82.09 | 89 | 2
[glyphosate] + Harness + AMS(P... | 32 OZ + 0.9 PT + 2 LB(POST)/Acre | $80.64 | 89 | 1
Weed Name and Seedbank Estimation | Weed Population Before | Weed Population After | Bushels Lost/A Before | Bushels Lost/A After | Dollars Lost/A Before | Dollars Lost/A After | % Control
Foxtail, Giant (SA) | 200.0 | 20.0 | 20.9 | 5.7 | $52.25 | $14.25 | 90.0%
Lambsquarters, Common (SA) | 200.0 | 10.0 | 31.4 | 5.5 | $78.50 | $13.75 | 95.0%
Ragweed, Common (SA) | 100.0 | 5.0 | 7.9 | 5.5 | $19.75 | $13.75 | 95.0%
TOTALS: | 500.0 | 35.0 | 60.2 | 16.7 | $150.50 | $41.75
ADVISOR Recommendations - Post-Emergence
4/1/2006
2:44 PM


Corn and Soybean Digest

Audience Discussion

1. Can IPM practices be economically justified in a technology driven market given the current dynamics?
2. How did we get in this predicament?
3. What are the barriers to maintaining IPM in field crops?
4. Is this phenomena occurring with other commodity crops or in other regions?
5. What programs have been successful in promoting IPM or encouraging the use of non-IPM in this market?
6. What research and education is needed in the future to support field crop IPM?
7. How can we work more closely with industry to facilitate adoption and use of IPM?