# DATCP's 2003 Insect Survey Results & Outlook for 2004

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# European Corn Borer


# Soybean Aphid

# Bean Leaf Beetle

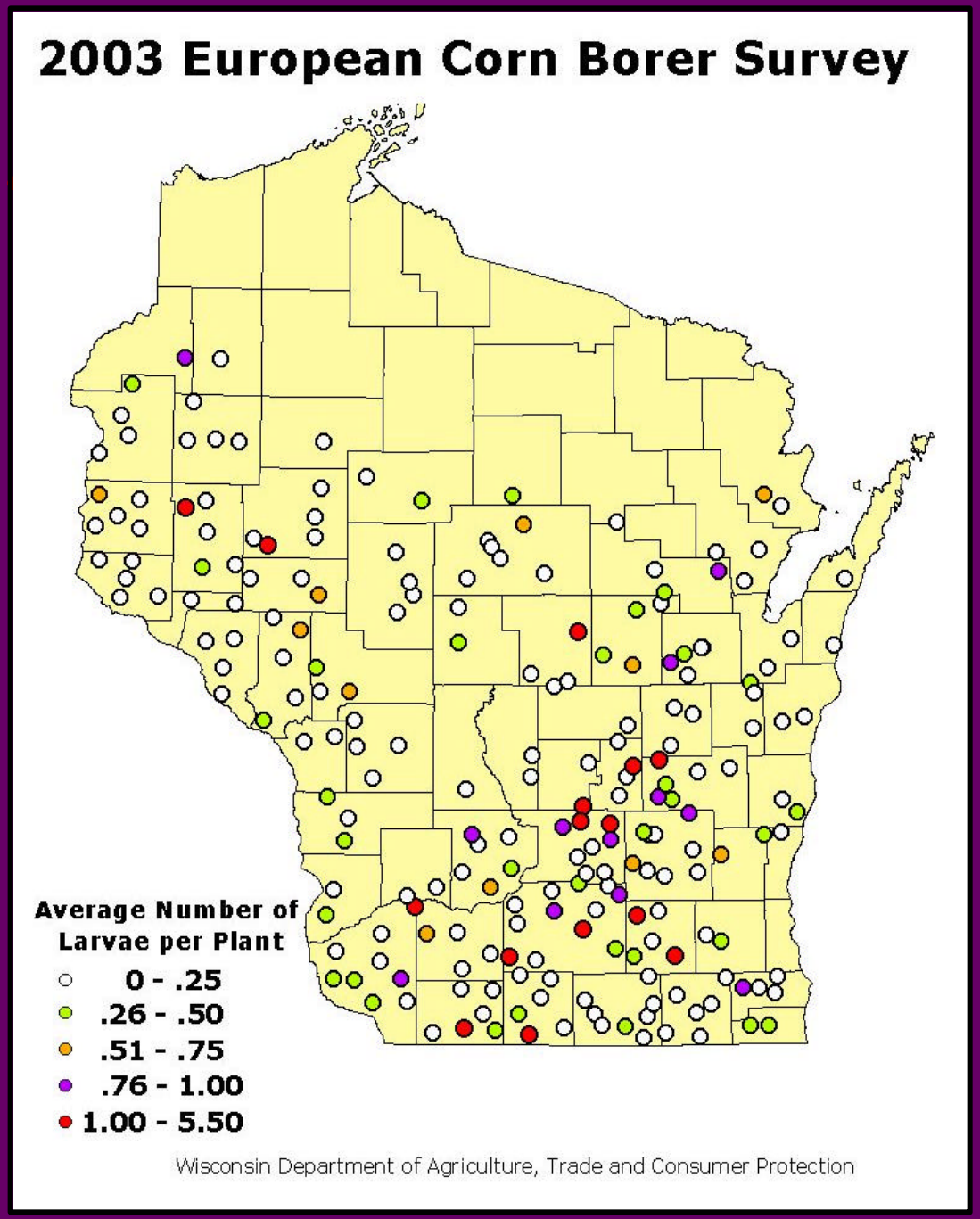
# ECB Fall Survey Objectives

- To estimate the density of the fall corn borer population
- To forecast the potential size of 1st flight of moths next summer
- To estimate the potential economic impact of ECB

# ECB Survey Results

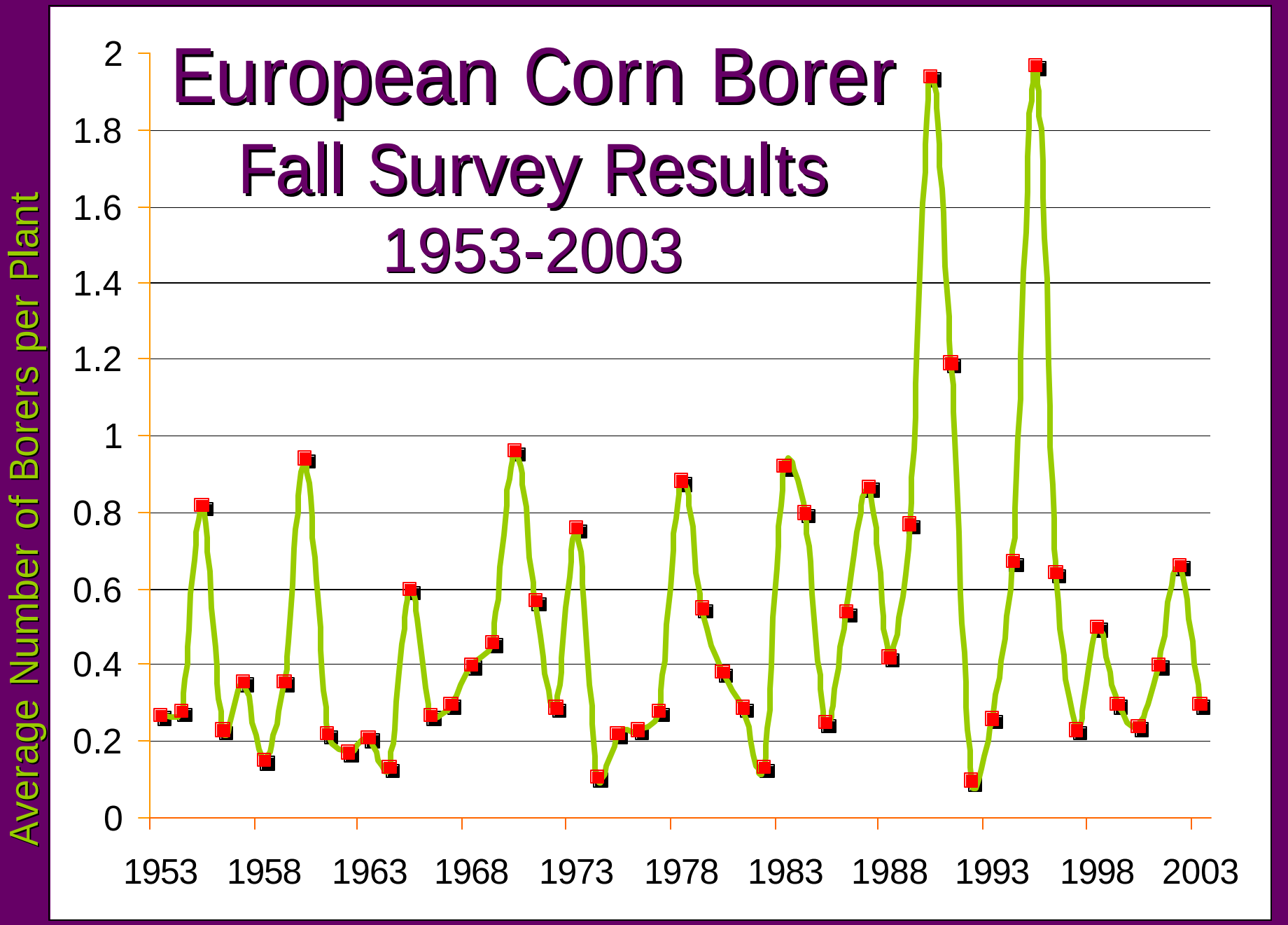
## Statewide Average Number of Corn Borers per Plant

- 2003: 0.30
- 2002: 0.66
- 10-year: 0.54
- 50-year: 0.49
- Threshold: 0.75




# Summary

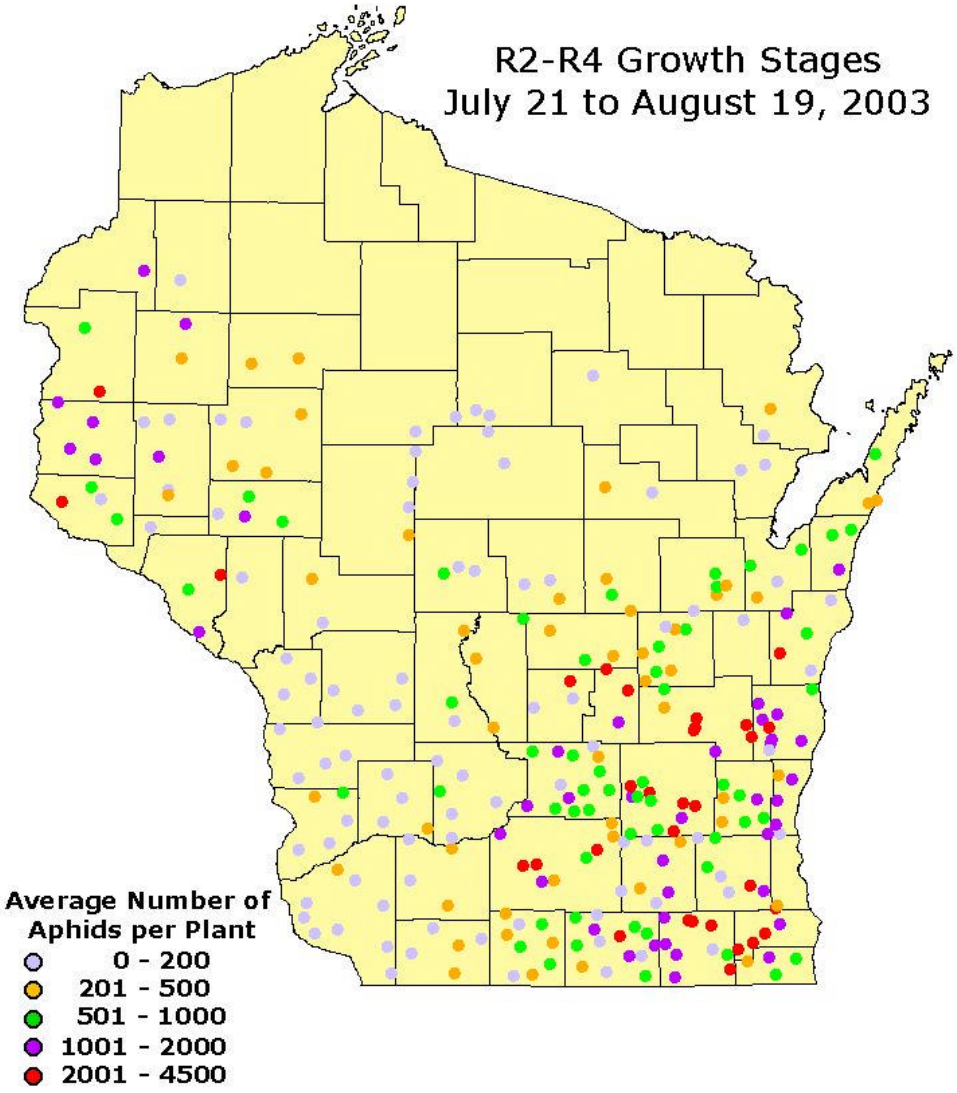
- 218 survey sites in 2003
- 43% of sites with 0 borers/plant
- 12% of sites above threshold (0.75 borer/plant)
- 88% of sites below threshold


European Corn Borer
Fall Survey Results
1953-2003
Average Number of Borers per Plant
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1953
1958
1963
1968
1973
1978
1983
1988
1993
1998
2003

# Outlook for ECB in 2004

- Expect a light first flight of moths, but be sure to monitor 1st and 2nd generation activity

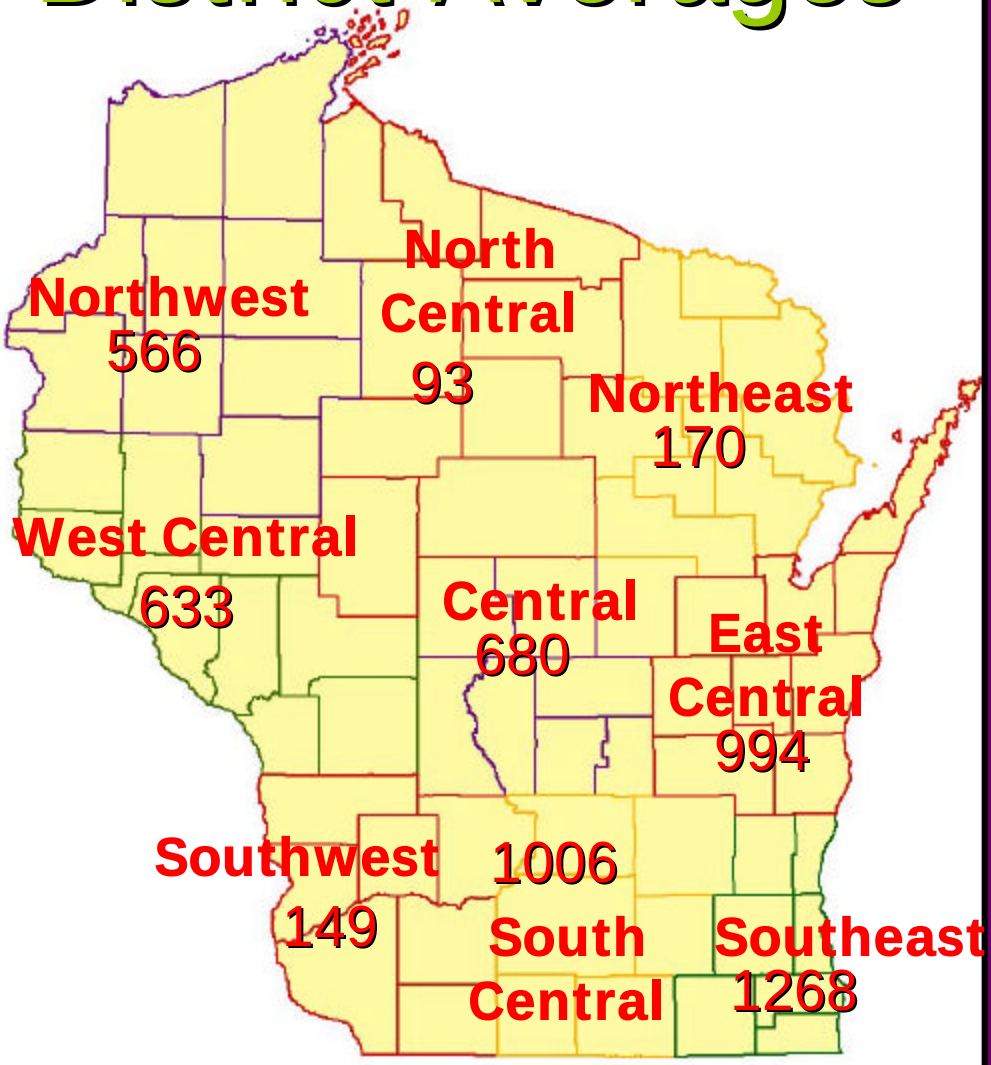

Soybean Aphid




# Summary

- 19% of sites with 201-500 aphids/plant
- 20% of sites with 501-1000 aphids/plant
- 16% of sites with 1001-2000 aphids/plant
- 11% of sites with 2000$^{+}$ aphids/plant

# District Averages




Number of Soybean Aphids per Plant

Statewide Average

- 770 aphids per plant

# Outlook for Soybean Aphid in 2004

- Will we see high aphid densities again in 2004?

- Be sure to scout early to determine when aphids first appear, then 1-2 times per week through pod set to monitor population increase

- Stay a step ahead of the aphids and follow advisories listed in the WI Pest Bulletin & UW-Extension's Wisconsin Crop Manager:

http://ipcm.wisc.edu/wcm/


Bean Leaf Beetle
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# Spring Survey for Overwintered Bean Leaf Beetles

- Where do bean leaf beetles overwinter in Wisconsin?
- What percentage of the overwintered blb population are carriers of BPMV?

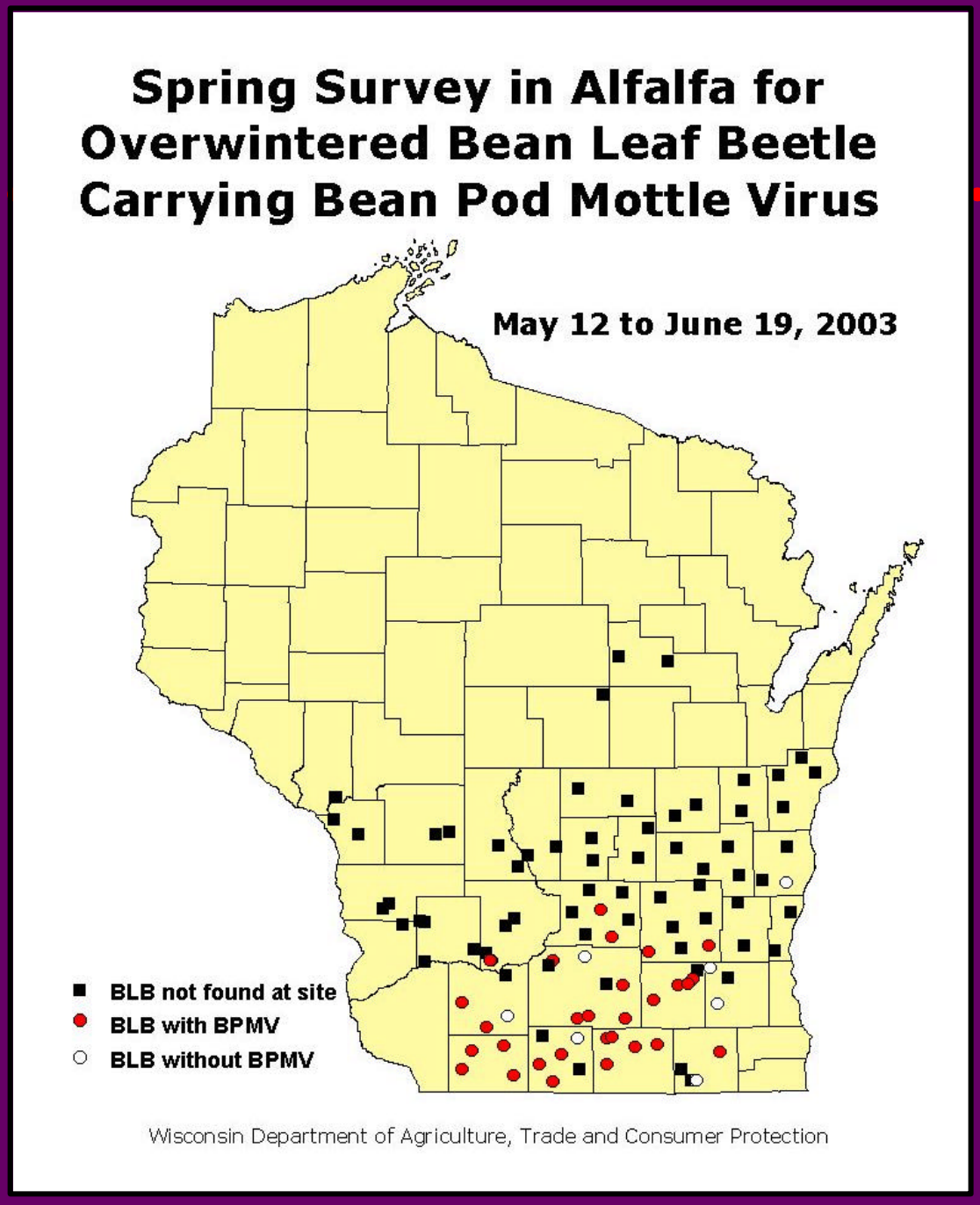
- Should WI growers facing bean leaf beetle/BPMV problems employ an early-season control strategy?

- Will that be an effective way to reduce virus transmission later in the season?

- Will a single strategy be effective every season and will it work for all WI soybean growers?

# BLB Survey Protocol

- Sweep alfalfa fields for overwintered beetles
- 200 sweeps (50 in 4 separate areas)
- Collect bean leaf beetles
- Test beetles for BPMV




# Summary

- 107 survey sites
- 41 sites with blb (38%)
- 152 blb collected at 41 sites
- 109/152 blb carrying BPMV (72%)

# BLB Survey Conclusions

- Overwintered bean leaf beetles WERE NOT widely distributed in 2003

- Overwintered bean leaf beetles WERE likely to be carrying BPMV in 2003

# Outlook for BLB in 2004

More than one strategy might be appropriate for WI

- Southern growers may benefit from early season control to reduce beetle numbers & BPMV transmission

- Northern growers should pay close attention to 1st generation to determine need for control of 2nd generation bean leaf beetles

For weekly updates on pest conditions throughout the growing season:

# The Wisconsin Pest Bulletin

http://datcp.state.wi.us/arm/environment/insects/pest-bulletin/