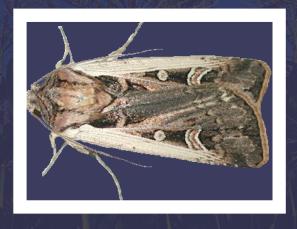


#### Insect Surveys 2007











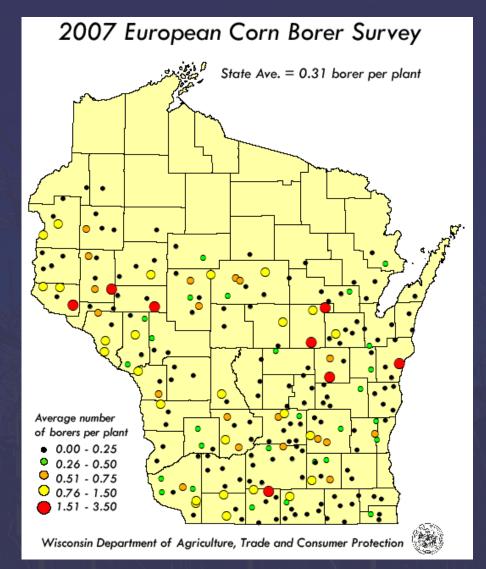


#### **ECB Survey Summary**

State Average No. Borers/Plant:

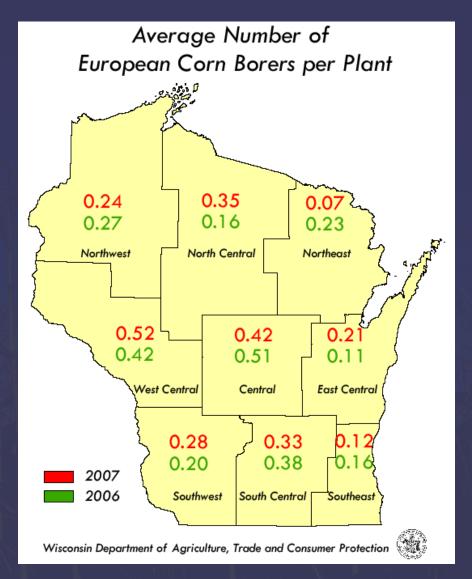
2007	0.31
2006	0.29
10-year	0.31
50-year	0.48
Threshold	1.00

- 92% (211 of 230) of the fields had populations < 1.0 per plant</li>
- 8% (19 of 230) had populations> 1.0 per plant

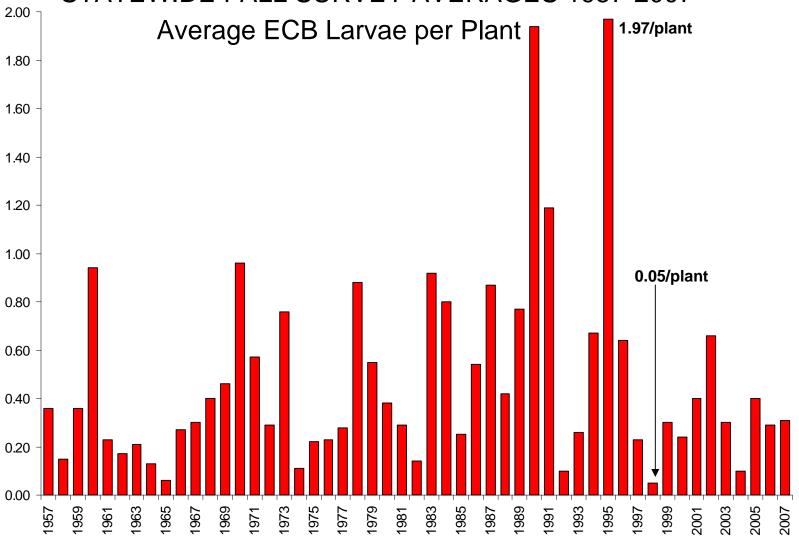


## District ECB Averages

- Population increases recorded in southwest, west central, east central, and north central districts
- Eau Claire, Waupaca, and Pierce counties had average densities > 1.0 borer per plant



#### STATEWIDE FALL SURVEY AVERAGES 1957-2007





Krista Hamilton, Plant Pest & Disease Specialist Wisconsin Department of Agriculture, Trade & Consumer Protection - Pest Survey Program http://pestbulletin.wi.gov/

#### Outlook for ECB in 2008

- Relatively low overwintering population
- Light first flight of moths next
  May-early June





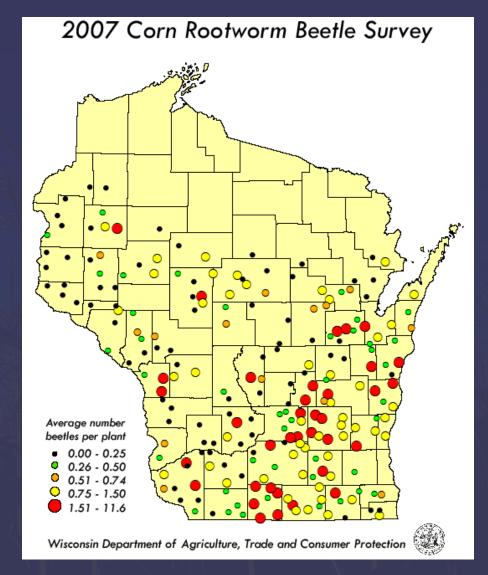
#### **CRW Beetle Survey**

- August 1 to 24 2007
- Total of 222 corn fields
- Statewide Average No. Beetles per Plant:

2007		1.0
2006		1.4
2005		1.6
Throchold	0.75	

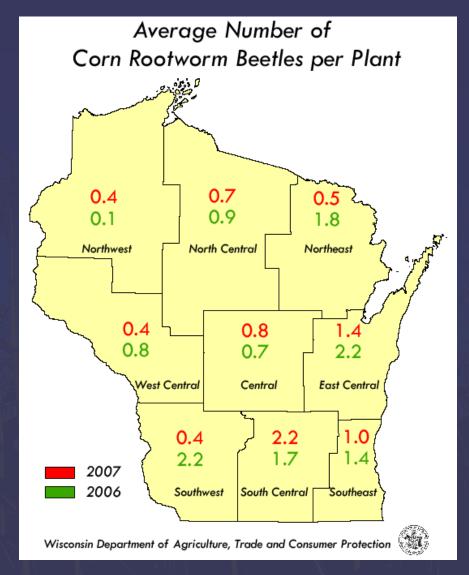
39% of sites with averages> 0.75 beetle per plant

i mesnoia



#### **CRW Beetle Survey**

- Largest population increase in the SC district
- Largest population decreases in the SW, EC and NE districts
- Heavy CRW beetle populations found in 2007, particularly in the SC, SE, C and EC districts
- Low populations in western WI due to heavy rains and flooding in August



## Mobile Testing for BT-ROOTWORM Corn



**MOBILE LAB** 



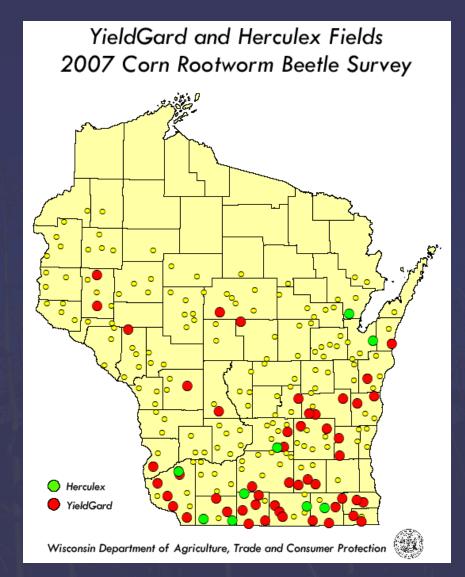
LEAF SAMPLES



TEST STRIPS

#### **CRW Beetle Survey**

- Percentage of Bt-rootworm sites doubled from 2006 to 2007
- 23% tested + for YieldGard<sup>®</sup>
  Bt-Cry3b1 protein
- 4% tested + for Herculex<sup>®</sup>
  Bt-Cry34/35Ab1 protein
- Economic populations in 57% of YieldGard<sup>®</sup> fields and 56% of Herculex<sup>®</sup> fields
- Average No. Beetles per Plant:
  Non Bt-rootworm 0.9
  Herculex<sup>®</sup> 1.0
  YieldGard<sup>®</sup> 1.4



#### Outlook for CRW in 2008

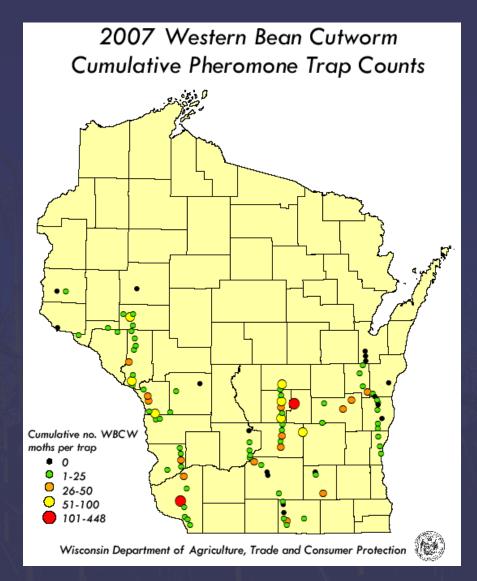
- HIGH risk in SC, SE,C and EC districts
- MODERATE risk in NC, NE, SW, WC, and NW districts
- Growers in HIGH RISK areas should consider crop rotation, a Btrootworm hybrid, seed treatment, or crw soil insecticide





## WBCW Trapping Survey

- 103 milk carton pheromone traps set in 2007
- Most traps set by mid-June
  First moth captured on June 20
- 78% of traps caught 0-25 moths
- 14% of traps caught 26-50 moths
- 8% of traps caught 51-100 moths
- Total of 2,178 WBCW moths trapped in 2007



## WBCW Trapping Survey

- Highest single nightly capture was 83 moths at Princeton on July 13
- Highest cumulative capture was 448 moths at Princeton in Green Lake County
- Peak flight registered from July 12 to August 7 at all sites
- Flights peaked earlier at western and central trap sites (mid- to late July) compared to eastern sites (first week of August)





#### CUIWOKN

#### Outlook for WBCW in 2008

- WBCW probably occurs statewide, but at very low levels
- Not yet a MAJOR threat to WI corn production
- Begin scouting as soon as the 1st moth is noticed
- Expect peak flight (and larvae in corn ears) by midto late July in west and central areas, about last week of July in the east (earlier than corn earworm)
- Action threshold = 8% of plants have egg masses and/or small larvae





WESTERN BEAN CUTWORM

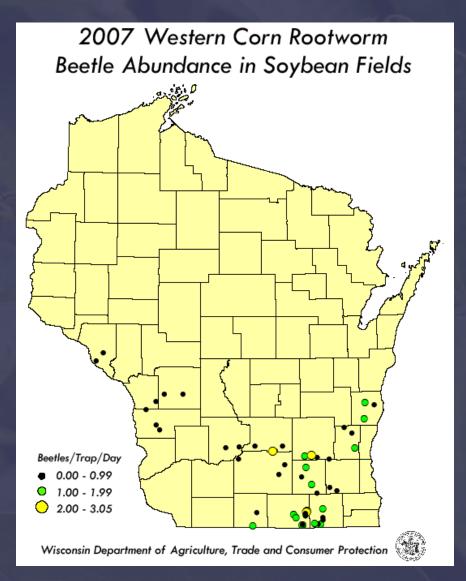
#### Variant WCRW Survey

- The Variant WCRW
  Network monitored 53
  soybean fields in 2007
- 12 yellow sticky traps per soybean field
- Four-week sampling period in August
- Threshold = 5 B/T/D for the four-week period



#### Variant WCRW Survey

- No fields with Variant WCRW populations > 5 B/T/D
- Highest averages were 3.05
  B/T/D and 2.17 B/T/D in
  Columbia, Dodge, and Rock counties
- Averages in Rock and Walworth counties fell below
   5 B/T/D for first time since 2003



#### Outlook for Variant WCRW in 2008

- WCRW populations LOWER due to heavy rains and standing water in August
- First year corn in fields monitored at LOW risk for root injury by WCRW larvae in 2008
- If you suspect VWCRW damage to first year corn, dig up plants in July to have roots assessed

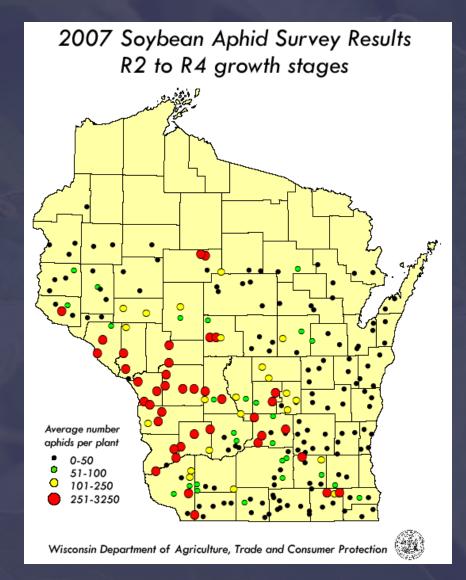


## Soybean Aphid Survey

Statewide Average No. of Soybean Aphids per Plant:

2007	164
2006	<b>69</b>
2005	118
2004	11
2003	<b>758</b>

- 73% fields with < 100 per plant</p>
- 10% fields with 101-250 per plant
- 17% fields with 251-3250 per plant



Outlook for Soybean Aphid in 2008

Soybean Aphid Overwintering Flight Suction trap counts from Sept-Oct

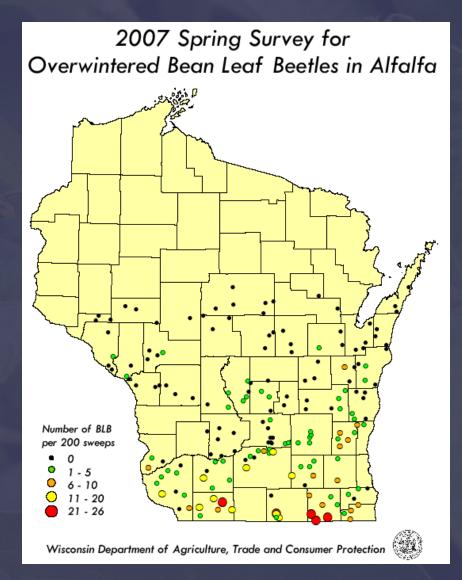
State	No.	2006	2007	
	Traps	2000	2001	
WI	7	<b>213</b>	17	
MN	<b>5</b>	<b>376</b>	104	
IL	9	1762	31	
IA	4	<b>532</b>	9	
IN	6	8322	<b>59</b>	
MI	<b>5</b>	209	156	

A very low overwintering flight may indicate lower aphid densities in 2008



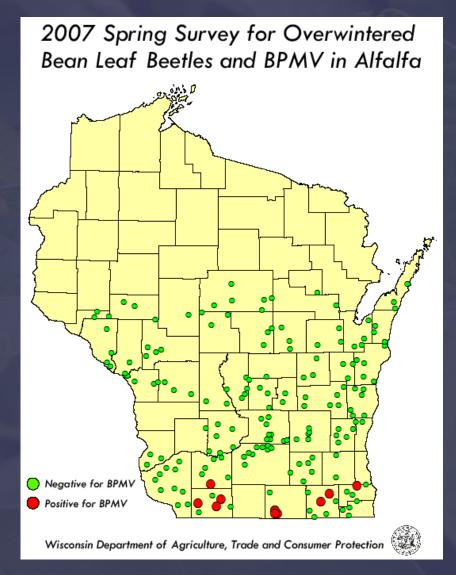
#### Bean Leaf Beetle Survey

- 5<sup>th</sup> annual survey detected highest numbers of bean leaf beetles since 2003
- 183 survey sites (alfalfa fields)
- Total of 509 BLB swept
- BLB found at 86 sites (47%)
- Highest counts detected in Lafayette, Rock and Walworth counties



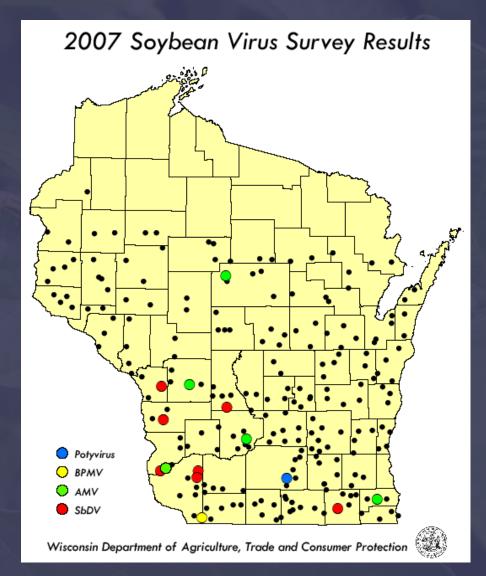
#### Bean Leaf Beetle Survey

- 509 BLB collected from 86 alfalfa fields
- BLB from 11 of 86 alfalfa fields tested positive for BPMV
- BPMV-positive beetles found in lowa, Lafayette, Racine, Rock and Walworth counties



## Soybean Virus Survey

 BPMV detected in one Grant County field during 2007 soybean virus survey



#### Outlook for Bean Leaf Beetle in 2008

- Appears to be a LOW risk for earlyseason BPMV transmission
- Scout earliest emerging soybeans for defoliation



#### The Wisconsin Pest Bulletin



## Acknowledgments

Bill Halfman, UWEX Monroe Co. Bill Veith, Seneca Foods Anette Phibbs, DATCP Daniel Gerhart, DATCP Eileen Cullen, UW-Madison Ent. Sara Schramm, UW-Madison Ent. Jim Stute, UWEX Rock Co. Patrick Branick, Pioneer Hi-Bred David Bauer, Pioneer Hi-Bred David Johnson, Pioneer Hi-Bred Joe Brown, Pioneer Hi-Bred Todd Leystra, Pioneer Hi-Bred Bruce Tourbier, Pioneer Hi-Bred

David Rundquist, Pioneer Hi-Bred Kurt Afdahl, Pioneer Hi-Bred Steve Hoffman, Hoffman Crop Consulting Tom and Bob Gillis, Pioneer Hi-Bred Ken Krentz, Pioneer Hi-Bred Chris Weber, Pioneer Hi-Bred Darwin Lohse, Pioneer Hi-Bred Doug Olson, Pioneer Hi-Bred John Pomerening, Pioneer Hi-Bred Lyle Hundertmark, Pioneer Hi-Bred Richard Kastning, Pioneer Hi-Bred John Nienhuis, Crop Production Services Joanne Ray, Chippewa Falls