

Field Name/location _____
 Crop/Stage: _____



Date Collected _____
 CLB Stage: _____

| CEREAL LEAF BEETLE MONITORING/THRESHOLD EVALUATION DATA SHEET | | | | | | | | | | | |
|---|----------|--------|----------|--------|----------|--|----------|--------|----------|--------|----------|
| Sample # | Tiller # | Tiller | | Flag | | Sample # | Tiller # | Tiller | | Flag | |
| | | # eggs | # larvae | # eggs | # larvae | | | # eggs | # larvae | # eggs | # larvae |
| 1 | 1 | | | | | 6 | 1 | | | | |
| | 2 | | | | | | 2 | | | | |
| | 3 | | | | | | 3 | | | | |
| | 4 | | | | | | 4 | | | | |
| | 5 | | | | | | 5 | | | | |
| | 6 | | | | | | 6 | | | | |
| | 7 | | | | | | 7 | | | | |
| | 8 | | | | | | 8 | | | | |
| | 9 | | | | | | 9 | | | | |
| | 10 | | | | | | 10 | | | | |
| | subtotal | | | | | | subtotal | | | | |
| 2 | 1 | | | | | 7 | 1 | | | | |
| | 2 | | | | | | 2 | | | | |
| | 3 | | | | | | 3 | | | | |
| | 4 | | | | | | 4 | | | | |
| | 5 | | | | | | 5 | | | | |
| | 6 | | | | | | 6 | | | | |
| | 7 | | | | | | 7 | | | | |
| | 8 | | | | | | 8 | | | | |
| | 9 | | | | | | 9 | | | | |
| | 10 | | | | | | 10 | | | | |
| | subtotal | | | | | | subtotal | | | | |
| 3 | 1 | | | | | 8 | 1 | | | | |
| | 2 | | | | | | 2 | | | | |
| | 3 | | | | | | 3 | | | | |
| | 4 | | | | | | 4 | | | | |
| | 5 | | | | | | 5 | | | | |
| | 6 | | | | | | 6 | | | | |
| | 7 | | | | | | 7 | | | | |
| | 8 | | | | | | 8 | | | | |
| | 9 | | | | | | 9 | | | | |
| | 10 | | | | | | 10 | | | | |
| | subtotal | | | | | | subtotal | | | | |
| 4 | 1 | | | | | 9 | 1 | | | | |
| | 2 | | | | | | 2 | | | | |
| | 3 | | | | | | 3 | | | | |
| | 4 | | | | | | 4 | | | | |
| | 5 | | | | | | 5 | | | | |
| | 6 | | | | | | 6 | | | | |
| | 7 | | | | | | 7 | | | | |
| | 8 | | | | | | 8 | | | | |
| | 9 | | | | | | 9 | | | | |
| | 10 | | | | | | 10 | | | | |
| | subtotal | | | | | | subtotal | | | | |
| 5 | 1 | | | | | 10 | 1 | | | | |
| | 2 | | | | | | 2 | | | | |
| | 3 | | | | | | 3 | | | | |
| | 4 | | | | | | 4 | | | | |
| | 5 | | | | | | 5 | | | | |
| | 6 | | | | | | 6 | | | | |
| | 7 | | | | | | 7 | | | | |
| | 8 | | | | | | 8 | | | | |
| | 9 | | | | | | 9 | | | | |
| | 10 | | | | | | 10 | | | | |
| | subtotal | | | | | | subtotal | | | | |
| Total # Eggs per 100 Tillers = | | | | | | Total # Eggs per 100 Flag Leaves = | | | | | |
| Total # Larvae per 100 Tillers = | | | | | | Total # Larvae per 100 Flag Leaves = | | | | | |
| Total # of Eggs & Larvae per 100 Tillers = | | | | | | Total # of Eggs & Larvae per 100 Flag Leaves = | | | | | |

CLB Monitoring/Threshold Evaluation Sheet Instructions

1. Inspect 10 individual tillers at 10 random sample sites in the field.
 2. At each sample site, record the number of eggs and larvae found on each tiller sample. From each total number per tiller, determine how many eggs and larvae are located on the flag leaf.
 3. Determine **subtotal** for each of the 10 sample sites (for each category egg/tiller, larvae/tiller, egg/flag leaf, and larvae/flag leaf).
 4. **Tally the subtotals** for each category (egg/tiller, larvae/tiller, egg/flag leaf, larvae/flag leaf) and record the total for each category in the chart located at the bottom of the CLB THRESHOLD MONITORING DATA SHEET.
 5. Divide each category total by 100 to determine **average # for each category** - record in tables below.
 6. Determine **percentage of eggs** by dividing the average # of eggs per tiller by the average # of eggs + larvae per tiller then multiplying by 100. This provides the percentage of eggs within the CLB population found on a tiller. Repeat for % eggs on flag leaf. If a high percentage of eggs per tiller are discovered, re-count a few days later.
 7. Refer to threshold levels below to determine if CLB control is needed based on Pre-Boot or Flag Leaf growth stage.
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TILLER COUNT RESULTS (use avg # eggs + larvae if in Pre-Boot Stage)

total # eggs per 100 tillers (from chart at bottom of data sheet) =
AVG # EGGS PER TILLER (divide total # eggs per 100 tillers by 100) =

total # larvae per 100 tillers (from chart at bottom of data sheet) =
AVG # LARVAE PER TILLER (divide total # larvae per 100 tillers by 100) =

total # of eggs + larvae per 100 tillers =
AVG # OF EGGS and LARVAE PER TILLER (divide total # eggs+larvae per 100 tillers by 100) =

OVERALL PERCENTAGE OF EGGS - TILLER (refer to Step 6) =

FLAG LEAF COUNT RESULTS

total # eggs per 100 flag leaves (from chart at bottom of data sheet) =
AVG # EGGS PER FLAG LEAF (divide total # eggs per 100 flag leaves by 100) =

total # larvae per 100 flag leaves (from chart at bottom of data sheet) =
AVG # LARVAE PER FLAG LEAF (divide total # larvae per 100 flag leaves by 100) =

AVG # EGGS AND LARVAE PER FLAG LEAF (divide total # eggs and larvae per flag leaves by 100) =

OVERALL PERCENTAGE OF EGGS - FLAG LEAF =

***CLB CONTROL (ECONOMIC) THRESHOLD LEVELS:**

Pre-Boot Growth Stage: Average of 3 eggs and/or larvae per tiller (use tiller count results)

Flag Leaf Growth Stage: Average of 1 larvae per flag leaf (use flag leaf count results)

*Control recommendations located in the PNW Insect Pest Management Handbook and on-line at <http://www.ipmnet.org> . Questions about this data sheet? Contact Darrin L. Walenta at OSU Extension Service-Union Co. at 541-963-1010 or email darrin.walenta@oregonstate.edu
