

Glance 'n Go Sampling

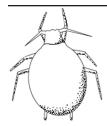
Greenbugs in Winter Wheat



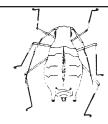
Treatment Threshold = 7 Greenbugs/Tiller

Economic Thresholds for January - May

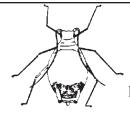
Prepared by Tom A. Royer and K.L. Giles, Oklahoma State University, and N.C. Elliott, USDA-ARS, Stillwater, OK.



Mummy (Parasite) Tan, bloated body



GreenbugGreen with dark stripe down back



Bird Cherry-Oat Aphid

Olive-green with red patch on back of body

- ▶ To sample the wheat field, use a "zig zag" or "W" pattern and walk at least 15 steps (about 30 foot) between stops.
- ▶ Carefully pull and examine 3 tillers (stems) per stop, taking one tiller from the left, right, and front.
- ▶ At each stop, mark the circle if you find a mummy on that infested tiller. Mark the box with an X if the tiller has one or more live greenbugs on it.
- ▶ Keep a running total of tillers with mummies and infested tillers. After each set of 5 stops, look at the number of mummies and infested tillers and follow the decision rules in the columns.

▶ Mummies Column:

- ▶ If the number of tillers with mummies exceeds the number in the mummy column, **Stop Sampling**, and **DO NOT TREAT**.
- ▶ If the number of tillers with mummies is less than the number in the mummy column, use the **Infested Tillers** columns to make a decision.

▶ Infested Tillers Column:

- ▶ If the number of infested tillers is less than or equal to the number in the Don't Treat Column, Stop Sampling, and DO NOT TREAT.
- ▶ If the number of infested tillers is falls within the number range in the Keep Sampling Column, KEEP SAMPLING.
- ▶ If the number of infested tillers is equal to or greater than the number in the Treat Column, Stop Sampling, and TREAT.
- ▶ If the "Stop Sampling" box is reached and a decision is not made: Recheck the field in 2-6 days.

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Field 1	Date			Spring, Threshol		Total tillers with 1 or more greenbugs		Mummies	☑ Infested Tillers ☑SU		
Sample V	Stop every 30 ft. and look Mark for each tiller that has 1 Mark for each tiller that has 1			or more mummies or more greenbugs				Don't Treat	Don't Treat	Keep Sampling	Treat
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5			▼	▼	▼ 0	▼
Tillers 1-15 ▶						▶ /1	5 >	4 or more	7 or less	8-15	N/A
Tillers 16-30 ▶						► /3	0 ►	4 or more	20 or less	21-29	30 or more
Tillers 31-45 ▶						▶ /4	5 >	5 or more	32 or less	33-42	43 or more
Tillers 46-60 ▶						▶ /6	0 ▶	6 or more	45 or less	46-55	56 or more
Tillers 61-75 ▶						▶ /7	5 >	7 or more	58 or less	59-68	69 or more
Tillers 76-90 ▶) /9	0 ▶	8 or more	71 or less	72-80	81 or more

Resample in 2-6 days

Stop Sampling

Field 2	Date		, Threshol	d = 7	Mummies	⋈ Infe	ested Tillers	<u>OSU</u>
Sample	Stop every 30 ft. and loc Mark for each tiller that has Mark for each tiller that has	Total tillers with 1 or more greenbugs	Don't Treat	Don't Treat	Keep Sampling	Treat		
,	Stop 1 Stop 2 Stop 3	Stop 4	Stop 5	Ŭ ⊠ Ŭ	T reat ▼	Treat ▼	• Samping ▼	Ticat ▼
Tillers 1-15 ▶				▶ /15 ▶	4 or more	7 or less	8-15	N/A
Tillers 16-30 ▶				▶ /30 ▶	4 or more	20 or less	21-29	30 or more
Tillers 31-45 ▶				▶ /45 ▶	5 or more	32 or less	33-42	43 or more
Tillers 46-60 ▶				▶ /60 ▶	6 or more	45 or less	46-55	56 or more
Tillers 61-75 ▶				▶ /75 ▶	7 or more	58 or less	59-68	69 or more
Tillers 76-90 ▶				▶ /90 ▶	8 or more	71 or less	72-80	81 or more
	Stop Sampling Resar	nple in 2-6 days						
Field 3	Date Stop every 30 ft. and loc		, Threshol	d = 7 Total tillers	Mummies	⊠ Infe	ested Tillers	OSU STATEMENT STATEMENT
Sample •	Mark of for each tiller that has Mark for each tiller that has	1 or more mummies 1 or more greenbugs		with 1 or more greenbugs	Don't Treat	Don't Treat	Keep Sampling	Treat
Tillers 1-15 ▶	Stop 1 Stop 2 Stop 3 O O O O O O O O O O O O O O O O O O O O O O O O O O O	Stop 4	Stop 5		▼ 4 or	7 or less	8-15	N/A
Timers 1-13			$\frac{\Box\Box\Box}{\circ\circ\circ}$		more			30 or
Tillers 16-30 ▶				▶ /30 ▶	4 or more	20 or less	21-29	more
Tillers 31-45 ▶				▶ /45 ▶	5 or more	32 or less	33-42	43 or more
Tillers 46-60 ▶				▶ /60 ▶	6 or more	45 or less	46-55	56 or more
Tillers 61-75 ▶				▶ /75 ▶	7 or more	58 or less	59-68	69 or more
Tillers 76-90 ▶				▶ /90 ▶	8 or more	71 or less	72-80	81 or more
	Stop Sampling Resar	nple in 2-6 days						
Field 4	Date Stop every 30 ft. and loc		, Threshol	d = 7 l Total tillers	Mummies	🛛 Infe	ested Tillers	OSU STATEMENT CONTROL TO
Sample	Mark for each tiller that has Mark for each tiller that has	1 or more mummies		with 1 or more	Don't	Don't	Keep	
•	Stop 1 Stop 2 Stop 3	Stop 4	Stop 5	greenbugs	Treat	Treat ▼	Sampling T	Treat ▼
Tillers 1-15 ▶				▶ /15 ▶	4 or more	7 or less	8-15	N/A
Tillers 16-30 ▶				▶ /30 ▶	4 or more	20 or less	21-29	30 or more
Tillers 31-45 ▶			000	▶ /45 ▶	5 or more	32 or less	33-42	43 or more
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	Stop Sampling Resar	nple in 2-6 days						