

# Glance 'n Go Sampling

for

## Russian Wheat Aphids in Winter Wheat

Treatment Threshold  
= 50% Infested Tillers

### Directions

- ▶ To sample the wheat field, use a "zig zag" or "W" pattern and walk at least 15 steps (about 30 ft) between stops.
- ▶ Carefully pull and examine 3 tillers (stems) per stop, taking one tiller from the left, right, and front.
- ▶ At each stop, color in the leaf for each tiller that has one or more Russian wheat aphids on it, and keep a running total. If the number of infested tillers is less than or equal to the number in the "Don't Treat" column then stop sampling, and do not treat. If the number of infested tillers is equal to or greater than the number in the "Treat" column then stop sampling, and treat the field. If the number falls within the numbers listed in the "Keep Sampling" column, continue sampling until a decision can be made, or the "Stop Sampling" box has been reached.
- ▶ If the "Stop Sampling" box is reached and a decision is not made:
  - ▶ Recheck the field in 2-4 days.

### Economic Thresholds for Russian Wheat Aphid in winter wheat

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

#### Field 1 Date Threshold = 50%

Sample ▼	Stop every 30 ft. and look at 3 tillers Mark a square for each tiller that has 1 or more Russian wheat aphids					Total tillers with 1 or more Russian wheat aphids	Don't Treat ▼	Keep Sampling ▼	Treat ▼
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5				
Tillers 1-15 ▶	□□□	□□□	□□□	□□□	□□□	▶ /15 ▶	3 or less	4-11	12 or more
Tillers 16-30 ▶	□□□	□□□	□□□	□□□	□□□	▶ /30 ▶	9 or less	10-21	22 or more
Tillers 31-45 ▶	□□□	□□□	□□□	□□□	□□□	▶ /45 ▶	14 or less	15-30	31 or more
Tillers 46-60 ▶	□□□	□□□	□□□	□□□	□□□	▶ /60 ▶	20 or less	21-39	40 or more
Tillers 61-75 ▶	□□□	□□□	□□□	□□□	□□□	▶ /75 ▶	27 or less	28-48	49 or more
Tillers 76-90 ▶	□□□	□□□	□□□	□□□	□□□	▶ /90 ▶	33 or less	34-57	58 or more
<div style="display: flex; justify-content: space-around; background-color: black; color: white; padding: 5px;"> <span>Stop Sampling</span> <span>Resample in 2-4 days</span> </div>									

#### Field 2 Date Threshold = 50%

Sample ▼	Stop every 30 ft. and look at 3 tillers Mark a square for each tiller that has 1 or more Russian wheat aphids					Total tillers with 1 or more Russian wheat aphids	Don't Treat ▼	Keep Sampling ▼	Treat ▼
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5				
Tillers 1-15 ▶	□□□	□□□	□□□	□□□	□□□	▶ /15 ▶	3 or less	4-11	12 or more
Tillers 16-30 ▶	□□□	□□□	□□□	□□□	□□□	▶ /30 ▶	9 or less	10-21	22 or more
Tillers 31-45 ▶	□□□	□□□	□□□	□□□	□□□	▶ /45 ▶	14 or less	15-30	31 or more
Tillers 46-60 ▶	□□□	□□□	□□□	□□□	□□□	▶ /60 ▶	20 or less	21-39	40 or more
Tillers 61-75 ▶	□□□	□□□	□□□	□□□	□□□	▶ /75 ▶	27 or less	28-48	49 or more
Tillers 76-90 ▶	□□□	□□□	□□□	□□□	□□□	▶ /90 ▶	33 or less	34-57	58 or more
<div style="display: flex; justify-content: space-around; background-color: black; color: white; padding: 5px;"> <span>Stop Sampling</span> <span>Resample in 2-4 days</span> </div>									

Field 3 Date Threshold = 50%

Sample ▼	Stop every 30 ft. and look at 3 tillers Mark a square for each tiller that has 1 or more Russian wheat aphids					Total tillers with 1 or more Russian wheat aphids	Don't Treat ▼	Keep Sampling ▼	Treat ▼
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5				
Tillers 1-15 ▶	□□□	□□□	□□□	□□□	□□□	▶ /15 ▶	3 or less	4-11	12 or more
Tillers 16-30 ▶	□□□	□□□	□□□	□□□	□□□	▶ /30 ▶	9 or less	10-21	22 or more
Tillers 31-45 ▶	□□□	□□□	□□□	□□□	□□□	▶ /45 ▶	14 or less	15-30	31 or more
Tillers 46-60 ▶	□□□	□□□	□□□	□□□	□□□	▶ /60 ▶	20 or less	21-39	40 or more
Tillers 61-75 ▶	□□□	□□□	□□□	□□□	□□□	▶ /75 ▶	27 or less	28-48	49 or more
Tillers 76-90 ▶	□□□	□□□	□□□	□□□	□□□	▶ /90 ▶	33 or less	34-57	58 or more

Stop Sampling Resample in 2-4 days

Field 4 Date Threshold = 50%

Sample ▼	Stop every 30 ft. and look at 3 tillers Mark a square for each tiller that has 1 or more Russian wheat aphids					Total tillers with 1 or more Russian wheat aphids	Don't Treat ▼	Keep Sampling ▼	Treat ▼
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5				
Tillers 1-15 ▶	□□□	□□□	□□□	□□□	□□□	▶ /15 ▶	3 or less	4-11	12 or more
Tillers 16-30 ▶	□□□	□□□	□□□	□□□	□□□	▶ /30 ▶	9 or less	10-21	22 or more
Tillers 31-45 ▶	□□□	□□□	□□□	□□□	□□□	▶ /45 ▶	14 or less	15-30	31 or more
Tillers 46-60 ▶	□□□	□□□	□□□	□□□	□□□	▶ /60 ▶	20 or less	21-39	40 or more
Tillers 61-75 ▶	□□□	□□□	□□□	□□□	□□□	▶ /75 ▶	27 or less	28-48	49 or more
Tillers 76-90 ▶	□□□	□□□	□□□	□□□	□□□	▶ /90 ▶	33 or less	34-57	58 or more

Stop Sampling Resample in 2-4 days

Field 5 Date Threshold = 50%

Sample ▼	Stop every 30 ft. and look at 3 tillers Mark a square for each tiller that has 1 or more Russian wheat aphids					Total tillers with 1 or more Russian wheat aphids	Don't Treat ▼	Keep Sampling ▼	Treat ▼
	Stop 1	Stop 2	Stop 3	Stop 4	Stop 5				
Tillers 1-15 ▶	□□□	□□□	□□□	□□□	□□□	▶ /15 ▶	3 or less	4-11	12 or more
Tillers 16-30 ▶	□□□	□□□	□□□	□□□	□□□	▶ /30 ▶	9 or less	10-21	22 or more
Tillers 31-45 ▶	□□□	□□□	□□□	□□□	□□□	▶ /45 ▶	14 or less	15-30	31 or more
Tillers 46-60 ▶	□□□	□□□	□□□	□□□	□□□	▶ /60 ▶	20 or less	21-39	40 or more
Tillers 61-75 ▶	□□□	□□□	□□□	□□□	□□□	▶ /75 ▶	27 or less	28-48	49 or more
Tillers 76-90 ▶	□□□	□□□	□□□	□□□	□□□	▶ /90 ▶	33 or less	34-57	58 or more

Stop Sampling Resample in 2-4 days

Oklahoma State University, in compliance with Title VI and VII of the Civil Rights Act of 1964, Executive Order 11246 as amended, Title IX of the Education Amendments of 1972, Americans with Disabilities Act of 1990, and other federal laws and regulations, does not discriminate on the basis of race, color, national origin, gender, age, religion, disability, or status as a veteran in any of its policies, practices or procedures. This includes but is not limited to admissions, employment, financial aid, and educational services.

Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Director of Oklahoma Cooperative Extension Service, Oklahoma State University, Stillwater, Oklahoma. This publication is printed and issued by Oklahoma State University as authorized by the Vice President, Dean, and Director of the Division of Agricultural Sciences and Natural Resources and has been prepared and distributed at a cost of 20 cents per copy. GH 1012