

Glance 'n Go Sampling

for

Russian Wheat Aphids in Winter Wheat

Treatment Threshold
= 25% 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,
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Field 1 Date Threshold = 25%

| 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 ▶ | 0 | 1-6 | 7 or more |
| Tillers 16-30 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /30 ▶ | 2 or less | 3-11 | 12 or more |
| Tillers 31-45 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /45 ▶ | 3 or less | 4-16 | 17 or more |
| Tillers 46-60 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /60 ▶ | 5 or less | 6-20 | 21 or more |
| Tillers 61-75 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /75 ▶ | 7 or less | 8-24 | 25 or more |
| Tillers 76-90 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /90 ▶ | 13 or less | 14-28 | 29 or more |
| <div style="background-color: black; color: white; padding: 5px; display: inline-block;">Stop Sampling</div> <div style="background-color: black; color: white; padding: 5px; display: inline-block; margin-left: 100px;">Resample in 2-4 days</div> | | | | | | | | | |

Field 2 Date Threshold = 25%

| 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 ▶ | 0 | 1-6 | 7 or more |
| Tillers 16-30 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /30 ▶ | 2 or less | 3-11 | 12 or more |
| Tillers 31-45 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /45 ▶ | 3 or less | 4-16 | 17 or more |
| Tillers 46-60 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /60 ▶ | 5 or less | 6-20 | 21 or more |
| Tillers 61-75 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /75 ▶ | 7 or less | 8-24 | 25 or more |
| Tillers 76-90 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /90 ▶ | 13 or less | 14-28 | 29 or more |
| <div style="background-color: black; color: white; padding: 5px; display: inline-block;">Stop Sampling</div> <div style="background-color: black; color: white; padding: 5px; display: inline-block; margin-left: 100px;">Resample in 2-4 days</div> | | | | | | | | | |

Field 3 Date Threshold = 25%

| 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 ▶ | 0 | 1-6 | 7 or more |
| Tillers 16-30 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /30 ▶ | 2 or less | 3-11 | 12 or more |
| Tillers 31-45 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /45 ▶ | 3 or less | 4-16 | 17 or more |
| Tillers 46-60 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /60 ▶ | 5 or less | 6-20 | 21 or more |
| Tillers 61-75 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /75 ▶ | 7 or less | 8-24 | 25 or more |
| Tillers 76-90 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /90 ▶ | 13 or less | 14-28 | 29 or more |

Stop Sampling Resample in 2-4 days

Field 4 Date Threshold = 25%

| 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 ▶ | 0 | 1-6 | 7 or more |
| Tillers 16-30 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /30 ▶ | 2 or less | 3-11 | 12 or more |
| Tillers 31-45 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /45 ▶ | 3 or less | 4-16 | 17 or more |
| Tillers 46-60 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /60 ▶ | 5 or less | 6-20 | 21 or more |
| Tillers 61-75 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /75 ▶ | 7 or less | 8-24 | 25 or more |
| Tillers 76-90 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /90 ▶ | 13 or less | 14-28 | 29 or more |

Stop Sampling Resample in 2-4 days

Field 5 Date Threshold = 25%

| 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 ▶ | 0 | 1-6 | 7 or more |
| Tillers 16-30 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /30 ▶ | 2 or less | 3-11 | 12 or more |
| Tillers 31-45 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /45 ▶ | 3 or less | 4-16 | 17 or more |
| Tillers 46-60 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /60 ▶ | 5 or less | 6-20 | 21 or more |
| Tillers 61-75 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /75 ▶ | 7 or less | 8-24 | 25 or more |
| Tillers 76-90 ▶ | □□□ | □□□ | □□□ | □□□ | □□□ | ▶ /90 ▶ | 13 or less | 14-28 | 29 or more |

Stop Sampling Resample in 2-4 days

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