

IPM TOOL FOR REDUCING THRIP PRESSURE IN ONIONS



Surround®
Agricultural Crop Protectant

Use Of Surround® to Suppress Onion Thrips Can Aid in the Control of Iris Yellow Spot Virus

Onion thrips are the known vector for Iris Yellow Spot Virus, and Surround® can assist in protecting your field from this harmful disease. In studies by researchers and commercial use by onion growers, SURROUND has significantly suppressed thrips. Best results are obtained if SURROUND is applied early before thrips enter the field and followed up with repeat applications to protect new growth.

Hermiston (OR) Agricultural Research and Ext. Center (HAREC) — 2007

Objective: To evaluate several products for efficacy controlling thrips on dry bulb onions.

Table 1. Thrips Control in Onion, Hermiston, OR — 2007

Treatment	Rate	No. Apps	Post Treatment Count ¹	Pre to Post Difference	Change (%)
Lannate	2 pt/a	5	18.9 bcd	+ 0.3	+ 1.8
Vydate L	2 qt/a	5	20.3 bcd	- 3.7	-15.3
Penncap M	2.0 pt/a	7	14.9 def	-12.7	-46.9
Trilogy	2.4 pt/a	18	9.3 fgh	-5.3	-36.5
BotaniGard	12 oz/a	9	19.6 bcd	- 7.1	-26.6
Warrior	3.0 oz/a	5	12.4 efg	- 7.5	-37.1
Radiant	8.0 oz/a	9	6.2 h	-5.5	-46.9
SURROUND	20 lb/a	8	7.2 gh	-6.9	-48.8
Check			15.5 cde	-9.1	-36.9
			***	NS	

¹ Thrips/plant; average 5 plants/plot/application.

NS, *** Treatment not significant or significant at P=0.001, respectively.

Means followed by different letters are significantly different at P=0.05 (Duncan's multiple range test).

Results for Registered Products:

“The post-treatment counts, averaged across several applications, were similar between the control and all treatments except Radiant, SURROUND and Trilogy, which were significantly lower than the control. When the percent change between pre- and post-application thrips counts is calculated in Table 1, it appears that the best control overall was obtained with SURROUND, Radiant and Penncap M, followed by Warrior, Trilogy and BotaniGard. Lannate did not perform well.”

For a full copy of the HAREC report e-mail us at novasource@tkinet.com.



Nine Ways SURROUND
May Suppress Insects

1. Repellency
2. Impedes egg laying
3. Reduces feeding
4. Impedes grasping
5. Restricts movement
6. Camouflages the host — prevents host recognition
7. Alters behavior
8. Induces paralysis
9. Causes mortality



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RECOMMENDATION FOR ONIONS

- SURROUND must be applied prior to thrips entering the field to be effective.
- Reapply 5–7 days later to ensure thorough coverage and create a “base coating” of protection.
- Reapply as necessary to maintain coverage of new leaf growth.
(In overhead irrigated fields this could require weekly application.)
- If insect pressure exceeds acceptable thresholds then a knockdown insecticide should be used in combination with SURROUND.
- Use of SURROUND under high heat conditions also provides protection from heat stress and sunburn.

Pest	Pounds / Acre	Application Instruction
Thrips	25-50	Suppression only*. Start prior to infestation and apply every 5–7 days throughout infestation. Good coverage down into the plant crown is essential for efficacy.
*If complete control is needed, consider using supplemental controls.		

Application Tips

- Apply SURROUND to near-drip. Avoid foliage run-off.
- Change the direction of travel on alternate applications for best coverage.
- SURROUND can be tank mixed with most pesticides. When tank-mixing, always add SURROUND to the tank first.
A pre-mix tank is suggested for sprayers without mechanical agitation.

Aerial Application

- Use no less than 10 gallons per acre. Best mixing results are achieved when mixing no more than 1 pound per gallon of water.
- SURROUND may be applied using standard aerial application nozzles.
- Make applications not more than 10 feet above the top of the largest plant unless a greater height is required for aircraft safety.
- When spraying at low relative humidity, increase droplet size to compensate for evaporation.

Important: Always read the label before buying and follow label instructions when using this product.

The use of Surround® in agricultural crop protection may be covered by patents held by Tessenderlo Kerley, Inc. For more information, visit novasource.com.

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