

Surround[®]

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 help suppress thrips. **before thrips enter**

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

Objective – To determine if Surround can reduce thrips populations and the incidence of Iris Yellow Spot Virus in onion plants.

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. 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. The percent change between pre- and post-application thrips counts for Surround was -48.8%.”

Surround is registered for use on onions for thrips control.

- 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

É"Uwttqwpf" o wuv"dg"cr rnkgt" rtkqt"vq"vjtkru"gpvgtkp i"vjg"Łgnf"vq"dg"ghhgevkg0
 É"Tger rn{"769"fc{u"ncvgt"vq"gpuwtg"vjqtqwi j"eqxgtc i g"cpf"etgcvg"c"ōdcug"
 eqcvkpiō"qh"rtqvgevkqp0
 É"Tger rn{"cu"pgeguuct{"vq"o ckpvcckp"eqxgtc i g"qh"pgy"ngch"i tqy vj0"*kp"
 qxgtjgc f"kttk i cvgf"Łgnfu"vjku"eqwnf"tgs wktg"y ggmn{"cr rnkcevkkp0+
 É"Kh"kpugev"rtguuwtg"gzeggfu"ceegr vcdng"vj tguj qnfu"vjgp" c"mpqemf qyp"
 kpugevkekfg"ujqwnf"dg"wugf"kp"eq o dkpcvkqp"y kvj"Uwttqwpf0
 É"Wug"qh"Uwttqwpf"wpfgt"jki j"jgc v"eqpfkvkqpu"cnuq"rtqxkfgu"rtqvgevkqp"htq o"
 jgc v"uvtguu"cpf"uwpdwtp0

Pest	Lbs/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

É"Cr rn{"Uwttqwpf"vq"pget/ftkr0"Cxqkf"hnkc i g"twp/qhh0
 É"Ejcp i g"vjg" fktgevkqp"qh"vtcxgn"qp"cnvgtpcvg"cr rnkcevkkqpu"htq"dguv"eqxgtc i g0
 É"Uwttqwpf"ecp"dg"vcpm"o kzgf"y kvj"o quv"rguvkekfgu0"Y jgp"vcpm/o kzkpi."
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Aerial Application

É"Wug"pq"nguu"vjcp"32"icnnqpu"rgt"cetg0"Dguv"o kzkpi"tguwnvu"ctg"cejkgxgf"y jgp"
 o kzkpi"pq"o qtg"vjcp"3nd"rgt"icnnqp"qh"y cvgt0
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 É"Ocmg"cr rnkcevkkqpu"pqv"o qtg"vjcp"32"hggv"cdqxcg"vjg"vqr"qh"vjg"nct i guv"rnepv"
 wpnguu"ci tgcvtg"jgki j"v"ku"tgs wktg f"htq"cktetchv"uchgv{0
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Important: Always read the label before buying and follow label instructions when using this product.

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 Warrior is a registered trademark of Syngenta Crop Protection.
 Radiant is a registered trademark of Dow AgroSciences LLC.
 Trilogy is a registered trademark of Certis USA LLC.

Lannate and Vydate L are registered trademarks of E.I. du Pont de Nemours and Company.
 Botanigard is a registered trademark of Emerald BioAgriculture.

The use of Surround® WP in agricultural crop protection applications is covered by US Patents 6,027,740; 6,069,112; 6,110,867 and 6,156,327.

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