



Seed Treatment and In-Furrow Treatments for Managing Maggots and Soilborne Diseases in Direct-Seeded Onion in New York, 2022

Relative efficacy of products based on multiple years of research experience by Brian Nault, Cornell Entomology, and Christy Hoepting, CCE Cornell Vegetable Program, as well as western US entomologists.

Table 1. Insecticide Seed Treatments for Managing Maggots in Direct-Seeded Onions

Tradename	Active Ingredient(s)	Group IRAC ¹	Activity on Target Pests	
			Onion Maggot	Seedcorn Maggot
Regard SC	spinosad	5	Excellent	Excellent
Trigard OMC	cyromazine	17	Excellent	Fair-Poor
Cruiser 70WS	thiamethoxam	4	Poor	Fair-Poor
Sepresto	chlothianidin + imidacloprid	4A 4A	Fair	Good-Fair

¹ IRAC: Insecticide Resistance Action Committee. Products belonging to different IRAC groups have different modes of action and kill insects differently. For resistance management, it is advisable to rotate among IRAC groups

Table 2. Fungicide Seed Treatments for Managing Soilborne Diseases in Direct-Seeded Onions

Tradename	Active Ingredient(s)	Group FRAC ¹	Activity on Target Pests	
			Onion Smut	Damping Off ²
EverGol Prime	penflufen	7	Excellent	None
Pro Gro	thiram + carboxiin	M3 7	Fair-Poor	Fair
FarMore F300 ³	Apron XL	4	None	<i>Pythium spp.</i>
	Maxim 4FS	12	None	<i>Rhizoctonia spp.</i> <i>Fusarium spp.</i>
	Dynasty	11	None	<i>Rhizoctonia spp.</i>
Thiram	thiram	M3	Poor	Fair

¹ FRAC: Fungicide Resistance Action Committee.

² Most common pathogens that cause damping off in onion in New York are *Pythium* species.

³ Apron, Maxim and Dynasty have activity on different genera of soilborne pathogens. Individually, these fungicides are not rated for their activity against the different damping off pathogens because we have no research results from New York. However, **FarMore F300 and FI500 packages** seem to have provided **fair control of damping off** in New York trials.

Seed Treatment Packages

- FarMore FI500 with Regard = Regard + Cruiser 70WS + FarMore F300
- FarMore FI500 with Trigard = Trigard + Cruiser 70WS + FarMore F300

Table 3. In-Furrow Drench Treatments for Managing Soilborne Diseases in Direct-Seeded Onions

Tradename	Active Ingredient(s)	Group FRAC ¹	Activity on Target Pests	
			Onion Smut	Damping Off ²
Ridomil Gold SL*	mefanoxam	4	Good	<i>Pythium spp.</i>
Manzate Max*	mancozeb	M3	Fair-Poor	Fair

¹ FRAC: Fungicide Resistance Action Committee.

² Most common pathogens that cause damping off in onion in New York are *Pythium* species.

* And other labeled formulations, such as Dithane DG, Penncozeb, etc. Roper for mancozeb.