



Environmental Horticulture Program Research Project Sheet

<https://www.ir4project.org/ehc/ehc-registration-support-research/env-hort-extension-resources/>

Project Name: Mollusc Efficacy

New		Ongoing	X	Completed		Duration if ongoing or completed:	2009-2011, 2018-2019
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Project Description:
 Snails and slugs impact production as well as landscape plantings. There are currently few effective materials able to manage these pests.

Research Project Abstract (if available):

Target Species (Phytotoxicity, or common and Latin name of arthropod, pathogen, weed):
 Snail, Brown Garden (*Cryptomphalus aspersus*)

Target Crops (list tested crops if ongoing or completed project)
 Scarlet Sage (*Salvia splendens*)
 Marigold, French (*Tagetes patula*)

Target Product(s)(list tested products or numbered compounds if ongoing or completed project)

Deadline T&O (Metaldehyde)	Slugkill 5 (Sodium ferric EDTA (FeEDTA-iron chelate))
Elector (Spinosad)	SpinOut LF 100 (Copper hydroxide)
Metarex (Metaldehyde)	TC Powder (TSP (ai saponin))
Sluggo (Iron Phosphate)	V-10433
Sluggo 3 (Iron Phosphate)	

Product Registration and Research Status			
	Fully Screened (also includes standards)	Partially Screened through IR-4 ¹	Need Data Across Species ?
Labeled Generally & Commercialized			
Labeled Generally But NOT Commercialized			
Labeled for Specific Aphids & Commercialized			
Labeled for Specific Aphids but NOT Commercialized			
Not yet registered or Labeled			
No longer available for development			

* IR-4 Data contributed to registration decision – either adding pest to label or not pursuing further research
¹ At least one species screened fully

Area	Characteristic	Pro	Con
Availability & effectiveness of alternative management tools	A couple new active ingredients are available in current and new MOA classes	X	

Damage potential of target			
Performance and crop safety of proposed products (from other systems)			
Compatibility with IPM, resistance management programs			
Economics			
Geographic distribution			
Manufacturer interest in labeling products			
Other			

IR-4 Efficacy Trials to Date

Average rating on a scale of 1 – 5 with 1 = 0 to about 50% efficacy (not effective) and 5 = 95 to 100 efficacy (very effective); minimum to maximum rating; number of trials (See table on next page). For product/insect combinations that are blank, IR-4 has not screened this combination.

‘Labeled’ indicates that this disease species or genera is listed on the label. A rating of 2 or lower is considered unacceptable efficacy (*red text*). A rating of 3 or higher is considered commercially acceptable (black text). Non-labeled, completed product/disease combinations (3 or more trials) with an average rating of 3 or higher are highlighted with *green text*. For disease/product combinations that are blank, IR-4 has not screened this combination.

MOA	Product (Active Ingredients)	Snail, Brown Garden (<i>Cryptomphalus aspersus</i>)
FRAC M1	SpinOut LF 100 (Copper hydroxide)	<i>1.0 (1 - 1) n2</i>
IRAC 5	Elector (Spinosad)	<i>1.0 (1 - 1) n2</i>
	Spinosad (Bran) (Spinosad)	<i>1.0 (1 - 1) n2</i>
unknown	Deadline T&O (Metaldehyde)	3.0 (2 - 4) n2
unknown	Metarex (Metaldehyde)	3.0 (3 - 3) n1
unknown	Sluggo (Iron Phosphate)	<i>2.0 (2 - 2) n1</i>
unknown	Sluggo 3 (Iron Phosphate)	<i>2.5 (2 - 3) n2</i>
unknown	Slugkill 5 (Sodium ferric EDTA (FeEDTA-iron chelate))	<i>1.0 (1 - 1) n1</i>
unknown	TC Powder (TSP (ai saponin))	<i>2.0 (2 - 2) n1</i>