
The Codling Moth In Michigan

Graduate Student CERES Grant Final Report 1 Project Title. How to fight hard to kill codling moths in apples Fruit. Adjusting the Phenology Model of Codling Moth Lepidoptera. Codling moth Integrated Pest Management. Codling Moth Apples Ontario CropIPM. Codling Moth Fruit. FORECASTING CODLING MOTH PHENOLOGY BASED ON PHEROMONE TRAP. The role of natural enemies in pest management of codling. sanweb lib msu edu. Pear Codling moth Pacific Northwest Pest Management. Resistance of codling moth *Cydia pomonella* L. Codling Moth Life Cycle How To Treat Codling Moth. Codling moth management options for apples Morning Ag Clips. Apple tree codling moths Ask an Expert. THE EFFECTS OF PHOTOPERIOD AND EFFECTIVE Cambridge Core. Codling moth control using granulosis virus. Elucidating the mechanisms of insect mating disruption and. Longevity of the Adult Codling Moth *Cydia pomonella* and. Codling Moth *Cydia pomonella* DigitalCommons USU. IMPACT OF HIGH RELEASING MATING DISRUPTION FORMULATIONS ON. Managing Codling Moth and Oriental Fruit Moth In Apples. scaffolds. Codling Moth Management and Chemical Ecology. Assessing Azinphos methyl Resistance in New York State. Line Trapping A Promising Method for More Accurate Pest. First Flight Codling Moth Emerges and PC Delays in the. Final Report Analysis of Codling Moth Mating Disruption. Codling moth IPM ? Basic Principle. Tortricidae Wikipedia. Codling moth. Table 1 Characteristics of Codling Moth Control Products. Codling moth back to normal in 2015 Fruit Growers News. Codling Moths Stock Photos amp Codling Moths Stock Images. Moths Codling Moths This Year Michigan Sportsman. Codling moth management options for Michigan apples Apples. Curriculum Vitae Christopher Adams. Resistance of codling moth *Cydia pomonella* L. WA Codling Moth SIR Tree Fruit Entomology Washington. Codling moths Thinking about Enviro Michigan Farm News. Resistance of codling moth *Cydia pomonella* L. Enviroweather Weather for IPM decisions in Michigan. Maximizing Information Yield From Pheromone Baited. The codling moth in Michigan CORE. Head Capsule Widths as an Indicator of the Larval Instar. Pest Education The Lifecycle of a Codling Moth. Arthropod Pesticide Resistance Database Michigan State. Insecticides for apple maggot and codling moth ? Wisconsin. Codling moths Thinking about Enviro weather model and hot

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December 9th, 2019 - regularly cleaned of vining plants codling moth have been shown to diapause and then pupate in the soil This may be another tool for managing codling moth in organic orchards As many growers are already using strip cultivation as a weed management strategy simply changing the timing of these''**How to fight hard to kill codling moths in apples Fruit**

December 26th, 2019 - Non chemical controls of codling moth include mating disruption by aerosol dispensers of codling moth pheromone ?It fills the orchard with that pheromone and so the moths aren?t able to find each other because that pheromone is everywhere instead of in a concentrated area where that moth would be ? Reynolds said'

'Adjusting the Phenology Model of Codling Moth Lepidoptera

September 27th, 2019 - The PETE model developed in Michigan where codling moth has one to two generations did not fit the phenology of codling moth in North Carolina where similar to populations in California it has two to four generations Rock and Shaeffer 1983 Data used to develop this new logistic model were largely collected from orchards in Yakima County'

'Codling moth Integrated Pest Management

December 10th, 2019 - Damage sometimes can be differentiated by the fact that lesser appleworm makes superficial tunnels under the surface of the fruit codling moth as contrasted with G molesta tends to damage the seeds as well as the fruit flesh More Information on Similar Species Lesser appleworm Oriental fruit moth'

'Codling Moth Apples Ontario CropIPM

December 15th, 2019 - Apply 2nd generation codling moth insecticides targeting larvae at 600 to 625 DDC base 10? C Proper monitoring and timing of insecticides is essential for managing codling moth If insecticides are applied too late larvae will have tunneled into the fruit where they can no longer be controlled by insecticides'

'Codling Moth Fruit

December 22nd, 2019 - Codling moth granulovirus is an effective organically acceptable tool to control codling moth In southern Germany there have been reports of resistance to one strain of CMGV Hear a National Public Radio story from 29 Sep 2007 on this problem'

'FORECASTING CODLING MOTH PHENOLOGY BASED ON PHEROMONE TRAP

May 4th, 1976 - The relationship of pheromone trap catch to emergence and oviposition of the codling moth was defined for the two generation climate of Michigan Catch anticipated emergence and oviposition during spring flight when the trap displayed greatest efficiency but lagged behind emergence and closely followed oviposition during the second generation'

'The role of natural enemies in pest management of codling

December 2nd, 2019 - Successful conservation of the codling moth s natural enemies in Michigan requires 1 identifying them and 2 determining major factors that affect their abundance and effectiveness in the apple agroecosystem The first chapter of my dissertation presents a literature review of the major natural enemies of codling moth by life stage'

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December 8th, 2019 - CODLING MOTH SITUATION IN LOWER MICHIGAN BY R yr pyrrrr PROFESSOR OF ENTOMOLOGY It is now apparent to many apple growers that under adverse weather conditions we may not hope to keep the codling moth in subjection by sprays alone in districts where the insects are plentiful'

'Pear Codling moth Pacific Northwest Pest Management

December 15th, 2019 - Pest monitoring Codling moth populations can be monitored using pheromone traps often in combination with

phenology models During the pink stage place 1 mg lures in the lower canopy at eye level in orchards where you do not intend to use mating disruption and instead plan to rely on insecticides for codling moth control'

'Resistance of codling moth *Cydia pomonella* L

October 12th, 2019 - CONCLUSIONS Broad-spectrum insecticide resistance was detected for codling moth Resistance to azinphos-methyl lambda-cyhalothrin and methoxyfenozide was associated with reduced residual activity in the field Broad-spectrum resistance presents serious problems for management of the codling moth in Michigan'

December 25th, 2012 - Codling moths are common pests of apples and pears but may also attack crabapples walnuts quince and some other fruits These small unassuming moths are dangerous to commercial crops and can cause extensive fruit damage Actually it is the moth's progeny the larva which cause the damage'

'Codling moth management options for apples Morning Ag Clips

December 5th, 2019 - Codling moth granulosis virus Growers should not overlook including granulosis virus in their codling moth management program This is a naturally occurring virus that goes by the scientific name of *Cydia pomonella* granulovirus CpGV Both of the two commercially available products Cyd X and Carpovirusine are effective'

December 18th, 2019 - This is the MSU Enviroweather link for codling moth Choose the station closest to you from the pull down menus in the upper left This tool is reset each year so you can use it in 2020'

'THE EFFECTS OF PHOTOPERIOD AND EFFECTIVE Cambridge Core

March 19th, 2018 - In Michigan and other areas in the northeastern United States with similar climate the codling moth is essentially bivoltine with considerable yearly variability in second generation emergence A graphic model is presented which gives an estimate of voltinism and the proportion of diapausing first generation larvae based on the seasonal heat unit total at the time of diapause initiation'

'Codling moth control using granulosis virus

December 25th, 2019 - Codling moth control using granulosis virus Larry Gut Entomology Among the new options available for control of codling moth CM is a naturally occurring virus that goes by the scientific name of *Cydia pomonella* granulovirus CpGV It is commonly referred to as the codling moth granulosis virus CpGV is highly specific to the codling moth'

'*Elucidating the mechanisms of insect mating disruption and*

*December 11th, 2019 - Therefore the trapping area is an unexpectedly large 19 ha Tfer for codling moth turned out to be a consistent 0 01 0 02 Knowing the codling moth trapping area and Tfer allows calculation of absolute codling moth density that will now enable considerably more precise decisions about whether or not sprays are needed and are economically''***Longevity of the Adult Codling Moth *Cydia pomonella* and**

January 22nd, 2017 - The longevity of adult codling moth *Cydia pomonella* L Lepidoptera Tortricidae and obliquebanded leafroller *Choristoneura rosaceana* Harris Lepidoptera Tortricidae held in shaded vials in the tree canopy was measured during the normal flight periods during 2004 and 2005 In both years all'

'**Codling Moth *Cydia pomonella* DigitalCommons USU**

October 11th, 2019 - Codling Moth *Cydia pomonella* by Diane G Alston and Michael E Reding Orchard IPM Series HG Orchard 08 Adult Codling Moth Larva tunnels to the core to feed on developing seeds Wing style pheromone trap is used to monitor adult male activity Hosts apple hawthorn quince pear crabapple apricot English walnut cherry Michigan State University'

'**IMPACT OF HIGH RELEASING MATING DISRUPTION FORMULATIONS ON**

*November 30th, 2019 - IMPACT OF HIGH RELEASING MATING DISRUPTION FORMULATIONS ON MALE CODLING MOTH *Cydia pomonella* L BEHAVIOR By Peter Scott McGhee A DISSERTATION Submitted to Michigan State University in partial fulfillment of the requirements for the degree of Entomology Doctor of Philosophy 2014''***Managing Codling Moth and Oriental Fruit Moth In Apples**

December 16th, 2019 - Managing Codling Moth and Oriental Fruit Moth In Apples By Deborah Breth population of codling moth CM *Cydia pomonella* and or oriental fruit moth OFM Research in Washington and Michigan has shown that codling moth mating and egg laying

activities take place primarily during a four hour period'

'scaffolds

November 27th, 2019 - Codling moth densities can be reduced through good sanitation practices and the physical removal of cocooning larvae Neglected orchards are a prime source of codling moth inoculum and should be removed Picking bins are an other important codling moth reservoir and should not be stored in proximity to commercial orchards'

'Codling Moth Management and Chemical Ecology

October 24th, 2019 - action in view of codling moth chemical ecology We describe the limitations and discuss the pros and cons to the adoption of codling moth mating disruption leading to suggestions for continued development CODLING MOTH CHEMICAL ECOLOGY

Female Sex Pheromone Codlemone the main compound of codling moth sex pheromone was first identified'

'Assessing Azinphos methyl Resistance in New York State

December 20th, 2019 - Assessing Azinphos methyl Resistance in New York State Codling Moth Populations Peter Jentsch¹ Frank Zeoli¹ and Deborah Breth² ¹Cornell University's Hudson Valley Laboratory Highland NY ²Cornell Cooperative Extension Albion NY 'Codling moth populations throughout the Eastern tree fruit producing region have'

'Line Trapping A Promising Method for More Accurate Pest

*June 16th, 2017 - When comparing catch numbers from a single pheromone trap for codling moth *Cydia pomonella* versus the mean catch of a line of five traps in a single location researchers at Michigan State University found the line trapping method to be far less prone to variability than the single trap method'*

First Flight Codling Moth Emerges and PC Delays in the
November 16th, 2019 - Broad spectrum resistance presents serious problems for management of the codling moth in Michigan About Peter J Jentsch Peter J Jentsch serves the mid Hudson Valley pome fruit grape and vegetable growers as the Senior Extension Associate in the Department of Entomology for Cornell University's Hudson Valley Laboratory located in Highland NY'

'Final Report Analysis of Codling Moth Mating Disruption

December 14th, 2019 - Analysis of Codling Moth Mating Disruption Dispensers in a High Elevation Northern Utah Apple Orchard ? Final Report 2 4 Checkmate CM XL 1000 Suterra LLC Bend OR is a membrane dispenser applied at the same rate as Isomate'

'Codling moth IPM ? Basic Principle

December 15th, 2019 - To make Codling moth management easier and more precise Fruit Growers Victoria has developed a software GrowFruit App which is a web based tool that uses the Phenological degree day DD modelling for the management of the key moths Codling Moth Oriental Fruit Moth and Light Brown Apple Moth in Pome and Stonefruit production''[Tortricidae Wikipedia](#)

November 15th, 2019 - The codling moth *Cydia pomonella* causes worm holes in apples It has been accidentally spread from its original range in Europe and is now found in North and South America South Africa Australia and New Zealand wherever apples are grown'

'*Codling moth*

December 16th, 2019 - Fruit damage from oriental fruit moth and codling moth is similar but codling moth larvae usually feed on the fruit seeds while oriental fruit moth larvae only feed on the fruit flesh If uncontrolled codling moth can damage 50 to 90 of the crop'

'**Table 1 Characteristics of Codling Moth Control Products**

December 24th, 2019 - Table 1 Characteristics of Codling Moth Control Products Orchards This table presents information on control products recommended for the control of codling moth using air blast sprayer application to commercial pome fruit plantings''**Codling moth back to normal in 2015 Fruit Growers News**

December 16th, 2019 - The catastrophic freeze of 2012 resulted in a near collapse of codling moth populations in most regions of Michigan Codling moth CM populations remained suppressed through much of the 2013 growing season Based on 2014 showing recovering codling moth populations and the current 2015 pheromone trapline data we expect normal codling moth''**Codling Moths Stock Photos amp Codling Moths Stock Images**

December 25th, 2019 - THE CODLING MOTH IN MICHIGAN 73 logical developments In the course of the emergence period part of the moths of the spring brood were hampered by cold rains which set in during the middle of June and caused a somewhat pro longed delay for about one half of the moths'

'Moths Codling Moths This Year Michigan Sportsman

November 30th, 2019 - Founded in 1999 Michigan Sportsman com started as a collection of links to Michigan related sites and a series of manually edited blogs It was a marriage of my passions for the outdoors and the internet In late 1999 we started our first message board It was one of Michigan s first social networks' '*Codling moth management options for Michigan apples Apples*

June 4th, 2019 - Codling moth larvae in apple Photo by Mark Longstroth MSU Extension At the MSU Trevor Nichols Research Center Fennville MI we set codling moth biofix on May 27 thus we can expect continued emergence of codling moth adults and widespread oviposition egg laying with first egg hatch codling'

'Curriculum Vitae Christopher Adams

December 18th, 2019 - Adams C G and L J Gut Sterile insect Release a New Tool for Codling Moth Control in Michigan Orchard Pest and Disease Management Conference 2019 annual meeting Portland OR Adams C G and L J Gut Sterile Insect Release a New Tool for Codling Moth Control in Michigan Great Lakes Fruit Vegetable and Farm Market Exposition 2018'

'Resistance of codling moth *Cydia pomonella* L

December 22nd, 2019 - Request PDF Resistance of codling moth *Cydia pomonella* L Lepidoptera Tortricidae larvae in Michigan to insecticides with different modes of action and the impact on field residual activity The codling moth is one of the principal pests of apple in the world Resistance monitoring is crucial to the effective management of resistance'

'WA Codling Moth SIR Tree Fruit Entomology Washington

October 30th, 2019 - About the WA SIR Project Codling moth the most destructive pest of pome fruits in Washington state The Washington Sterile Insect Release WA SIR project was started in the spring of 2018 to better understand the potential for use of this technique for codling moth control in Washington orchards''**Codling moths Thinking about Enviro Michigan Farm News**

December 2nd, 2019 - The bottom line is cooler temperatures are a grower?s ally when it comes to codling moths helping growers naturally keep codling moth populations in check The current codling moth model on Enviro weather is designed to help growers best time insecticides to prevent entry of larvae into fruit The model is initiated on March 1''**Resistance of codling moth Cydia pomonella L**

November 28th, 2019 - 1Department of Entomology Michigan State University East Lansing MI USA 2Trevor Nichols Research Complex Michigan State University Fennville MI USA Abstract BACKGROUND The codling moth is one of the principal pests of apple in the world Resistance monitoring is crucial to the effective management of resistance in codling moth'

'**Enviroweather Weather for IPM decisions in Michigan**

September 13th, 2019 - About Enviroweather s Codling Moth Assist Chart By Enviro weather staff More information on codling moth at IPM Resources About the model The current codling moth model is designed to help the user time insecticides for preventing entry of larvae into fruit'

'**Maximizing Information Yield From Pheromone Baited**

December 15th, 2019 - The above information enables codling moth catch in a standard monitoring trap to be translated into estimates of damage in a Michigan apple crop not under mating disruption Catch of male codling moth per trap per 21 ha trapping area is converted to males per trapping area by dividing catch by a T fer of 0 02''The codling moth in Michigan CORE

November 16th, 2019 - Download PDF Sorry we are unable to provide the full text but you may find it at the following location s <http://www.hathitrust.org/acce>''**Head Capsule Widths as an Indicator of the Larval Instar**

November 23rd, 2019 - In Michigan apple orchards the codling moth causes an average of 0.52 damage to commercial apples CCMS 1984 in spite of sophisticated phenology models Welch et al 1978 Riedl and Croft 1978 Gage et al 1982 which are used to time insecticide sprays'

'*Pest Education The Lifecycle of a Codling Moth*

November 22nd, 2019 - *Pest Education The Lifecycle of a Codling Moth* March 18th 2014 by ifi admin Codling Moths are issue for fruit growers in Michigan and throughout North America Ridge Quest has developed an effective strategy to interrupt the mating of codling moths known as *The Tangler*'

'*Arthropod Pesticide Resistance Database Michigan State*

December 15th, 2019 - Resistance of codling moth *Cydia pomonella* L Lepidoptera Tortricidae larvae in Michigan to insecticides with different modes of action and the impact on field residual activity Pesticide Management Science' 'Insecticides for apple maggot and codling moth ? Wisconsin

December 20th, 2019 - Below is a table of insecticides that provide activity against apple maggot and codling moth in apple This table is an excerpt of an article by John Wise from Michigan State University There are many other tradenames available and we do not recommend these that are listed above other options'

'*Codling moths Thinking about Enviro weather model and hot*

November 23rd, 2019 - The bottom line is cooler temperatures are a grower's ally when it comes to codling moths helping growers naturally keep codling moth populations in check The current codling moth model on Enviro weather is designed to help growers best time insecticides to prevent entry of larvae into fruit The model is initiated on March 1''

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