IR-4 FIELD DATA BOOK

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TITLE: <u>PYRETHRINS + PBO</u> MAGNITUDE OF THE RESIDUE ON <u>MUSHROOM</u> (WHITE BUTTON AND OYSTER)

PR# 05954

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes **Fogging**

White Button

SPONSOR

IR-4 Project Headquarters 500 College Road East, Suite 201 W Princeton, NJ 08540 (732) 932-9575, FAX# (609) 514-2612

STUDY DIRECTOR

Mr. Kenneth S. Samoil (732) 932-9575 extension 4614, FAX# (609) 514-2612 E-mail: samoil@aesop.rutgers.edu

FIELD DATA BOOK REVISIONS FOR TRIAL YEAR 2014

Revisions have been made in response to suggestions made by Field Cooperators, Study Directors, Regional Field Coordinators, Quality Assurance professionals, and EPA Auditors. They are intended to prompt for additional information where needed, to reduce misunderstandings of the data prompts by the people who use this book, and to facilitate the transcription of the data into final reports.

1B	The statement that pH strips "are compliant only if an SOP is in place" has been removed because SOPs that mention the strips but have little information about their use and maintenance may be inadequate to make them
	GLP-compliant. It is acceptable to use non-GLP-compliant pH strips in IR-4 field trials.
4B	The prompt for INSTRUMENTS USED TO MEASURE TEST SUBSTANCE has been removed from this page and relocated to 6G.
4D	A check-off prompt has been added for adjuvants that do not have an available batch number or expiration date.
5C	Adjacent treated plots (and test substances used) shall be listed in a table beneath the plot plan for this trial, rather than included in the plot plan. In this way, the plot plan does not need alteration when there is a trial cancellation in one of the adjacent plots. The information that had been entered into the table for the cancelled trial is lined out, and information about the replacement trial (if any) is entered below in the same table.
5F	All data prompts are now in table format. Some prompts that had been near the top of the page have been moved towards the bottom. All of the same prompts are in the new table.
5H	If a facility or grower's list of all maintenance chemical applications is inserted here, the applications to the plots in this trial must be notated in some way to distinguish them from applications made to other areas of the farm or research facility. (<i>I.e.</i> data dumping is prohibited)
5I	Crop Destruction: Description of the post-trial crop destruction has been moved here from Part 7B.
6C	If this is a 3-discharge calibration run, are the averages (last column on the right) of the second and third runs within 5% of the first run? (Check one) YES NO (The sprayer must operate consistently [within 5%] during the 3 runs for the calibration to be valid.) [The last column on the right of the calibration table now prompts for output/second.]
60	Prompts have been added for additional agitation time, for identification of measuring instruments with increments,
6G	and for indicating the order of mixing the spray mixture.
6H	The narrative summary of the application has been removed from this page to give more room for descriptions of poor crop vigor and equipment cleaning.
6I	The post-application rate confirmation has been removed from this page and has been replaced by the narrative summary of the application.
6J	Post-application rate confirmation is now on this page, with example calculations.
6K	Application equipment maintenance and repair log has been moved and replaced by phytotoxicity data and first rain or irrigation after application entries. Was There Any Visible Phytotoxicity Damage? If YES, then contact the Study Director. If a digital camera is available, it is preferable to take one or more photographs and send them in an email message to the Study Director. Also, provide a written description below. If irrigation is required by the protocol to incorporate the test substance, or if the test substance is applied by irrigation, then that event should be recorded below (first irrigation after application).
6L	Revised table of options for differentiating multiple field trials conducted by the same person or by two people within 20 miles of each other. This table was developed after discussions between U.S. and Canadian regulators.
6M	Application equipment maintenance and repair log is now on this page.
7A1	Protocol requirement questions (e.g. minimum # plants collected) are now in table format.
7A1	Number and Location of Rows from Which Each Sample Was Collected Examples: "6 middle rows" "All 3 rows" "1" (for single-row plot)
7A2	Include a description of equipment, duration of procedure(s), temperatures, estimated moisture content, etc., as appropriate. (When the protocol requires that certain samples have specified moisture content, the estimated (or calculated) moisture content of the collected samples must be recorded.

GENERAL INSTRUCTIONS FOR THE COMPLETION OF THE IR-4 FIELD DATA BOOK

This book is designed for use in collecting data in the course of completing a field trial sponsored by the IR-4 Project that **must** be conducted in compliance with the EPA or OECD Good Laboratory Practice Standards. It has been extensively updated in recent years. **DO NOT USE PAGES FROM FIELD DATA BOOKS PRINTED IN PREVIOUS YEARS.** All of the data **pages in this book should have "Trial Year 2014" in the lower right corner.** (Inserts such as bills of lading do not need to have this phrase; field ID# and page# are sufficient.) This Field Data Book (**FDB**) is an authentic record of your work. The IR-4 FDB is divided into Parts, each containing the following information:

PART NO.	SUBJECT GOOD LABORATORY PRACTICE COMPLIANCE INFORMATION
PART 2	PERSONNEL LOG
PART 3	NOTES AND COMMUNICATION LOG
PART 4	TEST SUBSTANCE RECORDS (Receipt/storage/disposition records, test substance use log)
PART 5	TRIAL SITE INFORMATION (Maps, soil characterization information, crop/pesticide
PART 6*	history, and test crop records) APPLICATION RECORDS (General equipment information, equipment calibration records, delivery rate calibration/calculations, treatment information, and environment records
PART 7	during treatment) SAMPLE COLLECTION AND STORAGE (General sampling information, sample balance calibration, sample log, freezer temperature and inventory)
PART 8	RESIDUE SAMPLE SHIPPING (Residue sample shipping forms)
PART 9	WEATHER AND IRRIGATION RECORDS
PROTOCOL & moved to the f	PROTOCOL CHANGES (formerly Part 10)—This part may be kept in the back of the FDB, or front of the FDB (ahead of Part 1), or inserted between other FDB Parts.

*Part 6 is available in a version specific for airblast applications. If you intend to apply the test substance in this study via airblast and have not received the pages entitled "PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER", then you should contact the Regional Field Coordinator, or print the pages from the IR-4 website: http://ir4.rutgers.edu/Fooduse/Fieldbook/index.htm

If the instructions below are followed, the IR-4 FDB can serve as both a scientific record and a legal document. Failure to comply is not necessarily a protocol deviation, but will result in time-consuming follow-up work by the Study Director, Regional Field Coordinator, QA Officer, and/or the Field Research Director.

- 1. One copy of each form (template) has been provided. However, some forms require completion of that form on various dates (e.g. Treatment Information Form must be completed for each application date). Prior to entering data, make appropriate number of photocopies of the template(s). Insert the Field ID on each page. If additional templates are needed, contact the Regional Field Coordinator, or print them from the IR-4 website: http://ir4.rutgers.edu/FoodUse/FieldBook/index.htm
- 2. Some data requested on a form can be applicable to more than one IR-4 field trial. When this occurs, a verified true copy of the completed form can be made and inserted in the proper Part(s) of other IR-4 FDB's. A verified true copy is made by marking on the page which is copied that "THIS IS A TRUE COPY OF ORIGINAL" or similar statement, noting which IR-4 FDB or other documents contain the original and having the person responsible for verifying the copy, initial and date the verification statement. In general, Parts 6G, 6H, 6I, 7A, and 7B should not be copied; they should have original entries. Contact the Study Director if a possible exception exists.

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Ennes

- 3. Staples and paper clips should not be used on pages in the FDB. Photographs and small pieces of paper with data should be taped to a standard-sized, blank piece of paper.
- 4. Follow all directions on how to complete the FDB carefully. When completing forms, you should enter all of the requested information, if possible. If a particular form or section of the form does not require a response, make a line-out (diagonal line from the top of the page or field to the bottom), then initial and date the line-out or the bottom of the page. If the requested data are not applicable, give an explanation. Some forms allow the submission of equivalent information versus completion of forms (e.g. verified true copy of recording temperature monitor printout instead of completing the temperature log).
- 5. All entries should be clear, understandable, legible, and made with a ballpoint pen in indelible blue or black ink. Changes to the raw data can only be made by drawing a single line through the original entry so as not to obscure it. The date, signature (or initials) and reasons for change (brief description or Error Code) must accompany any change. Acceptable Error Codes include:

AW=Accidental Write-over
CE=Calculation Error
EE=Entry Error
IE=Illegible Entry
IW=Inappropriate Word

LE=Late
ME=Mea
NA=Not
NI=New
PE=Pagi

LE=Late Entry SP=Spelling Error
ME=Measurement Error TE=Transcription Error
NA=Not Applicable UE=Unnecessary Entry
NI=New Information NR=Not Recorded
PE=Pagination Error WE=Wrong Entry

Other error codes can be used; however, the codes must be outlined in an approved SOP or noted in this IR-4 FDB. Circling error codes is not required, but may be done for clarity.

- 6. Do not write on the back of any page in the FDB. Do not insert 2-sided documents (pages with printing on both sides) in the FDB. If necessary, make one-sided copies of 2-sided documents for the FDB, and save the original in facility files. The MSDS for the test substance is not needed in the FDB, though a copy should be retained by the field personnel at each trial. The OBSERVATIONS, EXPLANATIONS AND COMMUNICATION LOG (Part 3) can be used to record observations, notes, phone calls, correspondence, and other events that have no specific place in the IR-4 FDB. Also, if there is not enough space in a section of a form to record the complete entry, add another page, or make a reference to Part 3 and complete the entry there.
- 7. If entries are made on a page over more than one day, each day's entry must be initialed and dated. When more than one person enters data on a page in one day, each of the initials (or signatures) must be dated. Data that have been recorded on non-FDB pages that are being inserted into the FDB must be initialed and dated, even if the data are also transcribed onto an FDB page. Multipage documents, which are themselves paginated, may be inserted into a FDB with initial and date on either the first or last page only.
- 8. The FDB should be complete when submitted, with the permissible exceptions of laboratory receipt forms, certificates of analysis, and protocol deviation forms that have been signed by the Study Director. Occasionally, additional exceptions may be made with the permission of the Regional Field Coordinator. Do not make a notation that the requested information will be submitted at a future date. Make a certified, true copy that includes each page of the IR-4 FDB for your records. Send the original to the designated Regional Field Coordinator.
- 9. If there are any questions on how to conduct research or capture information in the IR-4 FDB, contact the Study Director and the Regional Field Coordinator. Additionally, the Study Director should be contacted if:

the protocol requires changes
unforeseen or unavoidable circumstances force a change from protocol directions
actual application rate deviates more than - 5% or +10% from the protocol rate

PAGINATION INSTRUCTIONS FOR THE FIELD DATA BOOK

Initial pagination of the Field Data Book:

Pages should be numbered consecutively within each Part, starting each Part with Page 1. Do not paginate sub-parts separately. (There should not be Part 6A, page 1, followed by Part 6B, page 1. Part 6 is paginated as 1, 2, 3... until the last page in Part 6.) When an FDB Part is initially paginated, the total number of pages in that part is entered at the bottom of page 1 next to the words "Total number of pages in this section at initial pagination". It is not necessary to enter this total on each page within the section. All pages, including those not originally part of the FDB (such as Bills of Lading), should be paginated and identified with the field ID number. Pages in the Protocol/Protocol Changes section do not need pagination, but should be identified with the field ID number. Pages in Part 6 should be grouped by application#. I.e. all of the pages related to application #1 should come first, followed by all of the pages related to application #2, and so on.

Additional pages inserted into the Field Data Book after it has been paginated: If a page is added after the FDB has been paginated, number that page with the previous page number and a letter. E.g. a page inserted after Part 6, page 15, would be Part 6, page 15A. If two pages had been added here, the second page would be Part 6, page 15B. The total number of pages that had been entered on page 1 is not revised. The addition of these pages to the Field Data Book must be noted on the table on the next page, with the initials of the person who inserted the pages and the date of entry. Each row of the table should include only pages entered within one Part on one date (see example below); however all entries made on one date should be initialed and dated as a group. After all new pages have been entered on a particular date, a horizontal line must be drawn across the "Initials" and "Date" column to indicate which entries are confirmed by the initials and date above the line. This page should be kept just in front of the divider for Part 1. Unused portions of this table should not be lined out.

FDB Part	Identity of inserted pages (e.g. 6A-B, 9A)	Initials	Date
6	7A, 14A	- grl	8 8 14
7	2A, 14B	J	10/1/14
4	3A-C	Rs	10/1/14
5	1A	KH	2/28/15
6	7B-F, 14C, 20A	1211	

IR-4 HQ/October 2013

New Jersey Agricultural Experiment Station Publication No. A-27200-03-93. Supported by State, U.S. Hatch Act, and other U.S. Department of Agriculture Funds. Page 4

Fogging White Button

Field ID No. Ennes CHAIN OF CUSTODY FOR IR-4 FIELD DATA BOOK

FIELD RESEARCH DIRECTOR: DAVID Ennes After receipt of this IR-4 Field Data Book, the Field Research Director shall start the chain of custody log by completing the first part. Once raw data entry has begun in the Field Data Book, the data books are to be in the custody of the Field Research Director (or personnel under the Field Research Director's supervision). When the Field Data Book is transferred to another individual (e.g. sending completed Field Data Book to IR-4 Regional Field Coordinator), the sender must note to whom and when the data book is sent. The recipient must sign the next block and date the form upon receipt. Signature of Field Research Director: David Comes Date: 3-13-14 Printed name: DAVID ENNES Initials: Loke Field Data Book sent/given to: Becky 5,500 Date Sent: 9-26-14 Signature of recipient: Release Signature of recipient: Date Received: 10-1-14 Printed name of recipient: Pebecca Sisio Initials: K5 Field Data Book sent/given to: Stace Lennon Date Sent: 10/2/14 Signature of recipient: ______ Date Received: _____ Printed name of recipient: ______ Initials: _____ Field Data Book sent/given to: Signature of recipient: ______ Date Received: _____ Printed name of recipient: ______ Initials: _____ Field Data Book sent/given to: ______ Date Sent: _____ Signature of recipient: ______ Date Received: _____ Printed name of recipient: ______ Initials: _____ Field Data Book sent/given to: ______ Date Sent: _____

Field ID No._

Additional Chain of Custody Signature Blocks: DO NOT LINE OUT THIS PAGE!

Signature of recipient:	Data Passirrada
Printed name of recipient:	Initials:
Field Data Book sent/given to:	Date Sent:
Signature of recipient:	Date Received:
Printed name of recipient:	Initials:
Field Data Book sent/given to:	Date Sent:
Signature of recipient:	Date Received:
Printed name of recipient:	Initials:
Field Data Book sent/given to:	Date Sent:
Signature of recipient:	Date Received:
Printed name of recipient:	Initials:
Field Data Book sent/given to:	
Signature of recipient:	Date Received:
Printed name of recipient:	Initials:
Field Data Book sent/given to:	Date Sent:
Signature of recipient:	
Printed name of recipient:	
Field Data Book sent/given to:	

Fiel	d	ID	No.

PAGES ADDED TO THE FIELD DATA BOOK AFTER INITIAL PAGINATION
(See Page 4 for instructions on entering multiple pages on the same date—
you only need to enter initials once on each date!)

FDB Part	Identity of inserted pages (e.g. 6A-B, 9A)	Initials	Date
	х.		
		_	

Do not line out unused portions of this table.

(Additional "Pages Added" tables may be inserted if needed.)

GLP Part 1

FIELD ID NO: _

Ennes

DATE APPROVED (by IR-4 Regional Field Coordinator)

IR-4 FIELD DATA BOOK

PART 1. GOOD LABORATORY PRACTICE COMPLIANCE INFORMATION

A. STANDARD OPERATING PROCEDURES

SOP IDENTIFICATION (INCLUDING REVISION NO.)

Provide a verified true copy of the SOP index(s) \underline{or} complete the below section by listing all SOP's used in this research trial.

1. Company of the Contraction
Refer to the following page
ABOVE DATA ENTERED BY: David Emer DATE: 9-8-14
PART 1 PAGE Trial Year 2014
Total number of pages in this section at initial pagination: <u>3</u>
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO INITIALS DATE
DATEDATE

UC Kearney Agricultural Research and Extension - IR-4 Field Research Center

9246 S. Riverbend Ave., Parlier, CA 93648

2014 STANDARD OPERATING PROCEDUES - TABLE OF CONTENTS

SOP No. UCKARE-(#)	TITLE		Year Revised	Date Revised
10	Administration			
10-1.3	IR-4 Field Research Center Managem	nent	2011	03/03/11
10-2.6	Standard Operating Procedures		2014	02/13/14
10-3.4	Personnel		2013	03/18/13
10-4.4	Quality Assurance		2011	03/03/11
10-5.3	EPA (Environmental Protection Ager	ncy) Inspections	2011	03/03/11
20	Data (Reporting & Records)			
20-1.6	Raw Data (Recording)	This is an exact copy of the original	2014	02/13/14
20-2.2	Disposition of Field Data Books	Original in UCKARE records	2006	02/09/06
20-3.5	Archiving Raw Data	Initials: DR Date: 9-8-14	2011	03/03/11
20-4.2	Rounding		2012	02/22/12
30	Test System			
30-1.3	Commodity Establishment and Maint	enance	2011	03/03/11
30-2.4	Test Site (Selection, Design, Mainten		2014	02/13/14
30-3.4	Performance Evaluation		2014	02/13/14
30-4.2	Greenhouse Facilities		2011	03/03/11
40	Test Substance			
40-1.4	Test Substance Receipt, Storage and	Disposal	2007	12/04/07
40-2.6	Test Substance Receipt, Storage and Disposar Test Substance Application		2014	01/15/14
50	Took Crystons Commiles			0 1/ 10/ 11
50-1.7	Pyretnrins+PBO/Mushroom			02/13/14
50-2.6	Basidas Samula Standard Shipmant		2014	02/13/14
50-3.4	Drying of Plums, Grapes (Raisins), and Figs		2014	02/25/14
60	Equipment			02/20/11
60-1.4	Flowmeter –Scienco		2007	04/08/10
60-2.4	Freezers		2014	02/13/14
60-3.5	Sprayer - Croplands Handgun		2007	12/04/07
60-4.4	Sprayer - R & D Model T Backpack		2007	12/04/07
60-5.5	Temperature Measurement Instrumer	nts (Thermometers)	2014	02/13/14
60-6.5	Temperature/Humidity Measurement Instrument (Psychrodyne)		2014	02/13/14
60-7.5	Temperature/Humidity Measurement Instrument (Thermo-Hygro.)		2014	02/13/14
60-8.7	Temperature or Temperature/Humidity Recording Instruments (HOBO - Onset)			02/13/14
60-9.5	Weights (Calibration)			02/13/14
60-10.5 🙆	Weighing Instruments		2014	02/13/14
60-11:23-3	Wind Speed Measurement Instrumen	t (Turbometer-Davis)	2014	02/13/14
60-12.5	Sprayer - Airblast (Tractor-Mounted)	2012	02/22/12
60-13.3	Liquid Measurement – Bulk Containe		2014	02/13/14
60-14-1	Washer/Waxer (Post Harvest)		2007	02/23/07
60-15-1	Borrowed Equipment		2010	04/08/10
60-16-1	Chemigation		2012	02/22/12

SOP numbering Format: [Facility ID] - [sop category] - [sop number]. [version number]

*All SOPs have been reviewed prior to signing

SOPs submitted by: Sophistic Sophist

Regional Field Coordinator/Assistant Regional Field Coordinator

FIELD ID NO: Ennes

IR-4 FIELD DATA BOOK

			IN THEED DATA BOOK	
PART	1. G	OOD I	ABORATORY PRACTICE COMPLIANCE INFORMATION	
B. GOO	DD LAI	BORAT	CORY PRACTICE STATEMENT Field Research Director should print his/her name, sign, and date the Good Labord ditionally, the GLP compliance status of data in this study should be documented.	atory
and the	observing to (vations Chapter	, served as "Field Research Director" for this d the appropriate raw data and I attest that the data accurately reflect the con made during this trial. All activities associated with this trial were conducted at 40, Code of Federal Regulations, Part 160 or OECD Good Laboratory Preted below (check appropriate GLP status column):	ed
GLP C	omplia		DATA CATEGORY	
YES	NO	NA ¹		
	X		Weather, irrigation, and soil characterization data are not required by the protocol compliant with GLP's and are noted as non-compliant in the final report for the stu	to be
	X		TEST SITE HISTORY (chemical applications prior to the trial year) (FDB Part 5)	
	X		CULTURAL PRACTICES (dating back to harvest of the previous crop), MAINTENANCE FERTILIZERS AND PESTICIDES (current trial year) (FDB Pa	art 5)
			Potential data-generating equipment is listed below. Indicate the GLP compliance each. In U.S. trials, GLP-compliant equipment must comply with 40 CFR 160, Sul which includes 160.81 (b) (11).	status of bpart D,
X			ENVIRONMENTAL MONITORING DEVICES for test substance storage (FDB)	Part 4)
		X	GLOBAL POSITIONING DEVICE used to determine plot location (FDB Part 5)	
		χ	FLOW METERS and similar SPRAYER OUTPUT CALIBRATION EQUIPMEN measure water (excluding marked, calibrated beakers, graduated cylinders or flask for scientific research) (FDB Part 6)	T used to s suitable
	X		pH METER or STRIP for measuring the acidity of the carrier (water) (FDB Part 6))
	X		RESIDUE SAMPLE WEIGHING EQUIPMENT (FDB Part 7)	
X			ENVIRONMENTAL MONITORING DEVICES for sample storage (FDB Part 7)	
			List below additional non-compliant items (additional pages may be used for more	items)
	X		Cardinal Micron Master fogger for applica	tions
FIELD I "NA" sh	PERSO lould be	NNEL e checke	SHOULD NOT LINE OUT BLANK CELLS ON THIS PAGE ed for equipment that was not used in this trial.	
	10	Dan	vil Eunes 9-2	5-14
	SIGNA	TURE	OF FIELD RESEARCH DIRECTOR DATE	

PART 1 PAGE 3

Trial Year 2014

Personnel Part 2

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 2. PERSONNEL INVOLVED IN TRIAL

A. IDENTIFICATION OF INDIVIDUALS

INSTRUCTIONS: Complete this form to document the Field Research Director and other personnel involved in the trial. Also include all individuals who entered data and/or worked on this trial (these include scientists, technicians, summer interns, and their supervisors). General field workers and Quality Assurance Unit personnel should not be included. Upon completion of this section participants may use their initials to verify data. Original signatures and initials are preferred on this page, but a true copy is acceptable.

FIELD RESEARCH DIRECTOR

NAME (print):	DAVID ENNES	
AFFILIATION:	Ve Rearney Agricultural Research undext	custon
ADDRESS:	92 40 South Riverbend Ave	
CITY:	Parlier	
STATE or PROVINCE:	CA ZIP (Postal Code): 936 48	
TELEPHONE:	(559) 646-6061 FAX: (559) 646-6015	
E-MAIL ADDRESS:	djennes Queanr. edu	
SIGNATURE: INITIALS:	David Eures DATE: 6-19-14	
	OTHER TRIAL PERSONNEL	
PRINT NAME Desi SK/es	SIGNATURE INITIALS DATE WILLIAM WILLIAM WILLIAM DATE WILLIAM WILLIAM DATE WILLIAM WILL	
Total number of pages	PART 2 PAGE Trial Year 2014 s in this section at initial pagination:	ļ
COMPLETE IF APPROPRIATE ORIGINAL IS IN	ATE: "THIS IS A TRUE COPY OF THE ORIGINAL" IR-4 FIELD DATA BOOK NO. INITIALS DATE	-

FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 2. PERSONNEL INVOLVED IN TRIAL

B. QUALIFICATIONS SUMMARY

INSTRUCTIONS: Provide current curriculum vitae containing the education, training and experience records of trial personnel, concentrating on items that are applicable to field research with pesticides and good laboratory practices for every individual listed on Part 2-A. If this is not available complete a copy of this Form.

NAME		
(PRINTED)	(SIGNATURE)	
EDUCATION SUMMARY:		
	Refer to the following	pages
WORK EXPERIENCE SUMMARY	Refer to the following	, ,
SPECIAL TRAINING, QUALIFICA	TIONS OR ACCOMPLISHMENTS:	
ABOVE DATA ENTERED BY:	wil Eures 1	DATE: 9-8-14
	PART 2 PAGE <u>~</u>	Trial Year 2014
COMPLETE IF APPROPRIATE: "	THIS IS A TRUE COPY OF THE ORIGINAL"	
THE ODICINIAL IS IN ID. 4 ETCL D. D.A.	CA DOOK NO DITTLAT C	D. A. III D.

University of California Kearney Agriculture Research and Extension , IR-4 Program

9240 S. Riverbend Parlier, California 93648

David J. Ennes

Field Research Director

Name:

Title:

Telephone (559) 646-6061 Facsimile (559) 646-6015

Ennes

CURRICULUM VITAE

Education:	California State University, Fresno, CA; BS Degree - Plant Science Yuba College, Yuba City, CA; AS Degree - Agriculture
Professional Experience:	
Field Research Directoresidue trials involving	
Research Biologist - Si	Research For Hire, Porterville, CA upervision of field agrichemical residue trials, efficacy and environmental fate studies and al ng such activities, and assuring that those activities are performed in accordance with the
Research Associate - 6 purpose of registration commissions and agricu identifying and setting-	Conduct efficacy and residue studies, field and greenhouse trials, and lab bioassays for the and re-registration of chemical and biological products for private industry, grower ultural companies. Residue trials conducted under EPA's GLP Standards. Work includes up trial sites and plots layouts, designing experiments, applying test substances, evaluating lalyzing data, and scientific report writing.
1997-1998 Seed Analyst Trainee -	
1997Summer Intern - Assis	
Research Biologist - S	Research For Hire, Porterville, CA supervision of field agrichemical residue trials, efficacy and environmental fate studies and along such activities, and assuring that those activities are performed in accordance with the
04/95-05/96	Assisted in management of company vineyards, maintained research vineyard and assisted in
Research Biologist - Si	Research For Hire, Porterville, CA appervision of field agrichemical residue trials, efficacy and environmental fate studies and along such activities, and assuring that those activities are performed in accordance with the
Professional Licenses:	Qualified Applicator License 105352
Signature:	viel Eunes Initials: Of Date: 1-15-14
Authentic Copy-Original in UC	Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes Ennes

University of California Kearney Agricultural Research Extension (UCKARE) IR-4 Program

24:2		
DAVID	Ennes	CONTRACTOR OF THE PARTY OF THE

Signature Cavia Euros Date 6-13-11

Part_2 Page: 4

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

Authentic Copy-Original in UCKARE Records Dk 9-8-14 FIELD ID NO:

SAFETY AND IR-4 TRAINING SESSIONS

This is an exact copy of the original Original in UCKARE records Initials: Date: 7-8-14

Field Research

JOB TITLE: Director - OJE 2-15-07

2-1507 ENNES EMPLOYEE NAME: DAUID

	EVENT DATE	TRAINING EVENT/LOCATION	TRAINER	INITIALS/DATE
	7-15-07	Respirator Fit Test Parlier, CA Alan Cary		Of 2-15-07
	£0-61-9	1	Rick Melnicoc	Of 6-19-07
	3-12-08	Respirator Fit Test Parlier, CA Man Cary	Alan Cary	St 3-12-08
Pa	5-29-08	UC Posticide Policy Parliel, CA	Rick Melnicoe Dy 5-29-08	Df 5-29-08
Part	11-13 14-08	Application of GLP's to Field Studies Paso Robles, CA	Deborah Garuin Ste 11-17-08	C/E 11-17-08
25	17-17-08	Shipping with dry 100	Edv where	Dk 12-17-08
	4-24,25-09	Conference Theining O-sun Antonio		Dr 3-2-09
	3-4-09	Respirator Fit Test Parlies, CA	λ	Dk 3-4-09
	6-2-09	Uc Pesticide Policy Parlier, CA	Rick Melaicoc Ofe 6-2-09	Ope 6-2-09
	50-01-6	Defensive Driving Aureness	Jerry Bach Ste 9-10-09	Of 8-10-09

0 (E) she 1-12-10

This is an exact copy of the original Original in UCKARE records Initials:

SAFETY AND IR-4 TRAINING SESSIONS

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

NNES - 10/2 9-10-07 EMPLOYEE NAME: DAU

Field

JOB TITLE: Reserrch Director

	MOID ACC REPRESENTATION OF THE PROPERTY OF THE	TRAINER	INITIALS/DATE
2 - 2, 3-2010	Western Reside IR-4 Residue	Parlich CA	Ope 2-3-10
3-18-10	Working Safely in the green house	Video	DJC 3-18-10
4-7-10	Respirator Fit Test Parlier, CA	Alan Cary	Dfr 4-7-10
10-20-10	Ue Pesticide Policy Parliel, CA	Rick melnicoe	Da 10-20-10
11-6-9	Uc Pesticiolo Policy Partier, CA Rick Melnicoe De 6-9-11	Rick Melnicoe	Ok 6-9-11
11-11-1	Acsista for Fit Trest Parlier, CA	Alan Cary	Op 6-17-11
8.74.11	Shipping with dry 100	Edv where	D/2 8-25-11
1-13-17	GLP Residue Thaining	Various	Op 1-17-12
21-01-1	GLP Residor Training	Various	D/ 2-10-12
3-9-12	7 /	Various	Ch 3-9-12

Part 2 Page: 6

SAFETY AND IR-4 TRAINING SESSIONS

This is an exact copy of the original Original in UCKARE records Initials: 24 Date: 7-9-14

Field Rosearch

21-91-12 AB Ennes EMPLOYEE NAME: DAVID

JOB TITLE: DIVERTOR DR 476-12

EVENT DATE	TRAINING EVENT/LOCATION	TRAINER	INITIALS/DATE
4-13-12	GLP Reside Truining Webiners in 2012 Parlier, CH	Various	Sk 4-13-12
5-11-12	\	Various	DR5-11-12
5-31-12	Respirator Fit Test Parlier, CA	Alen Cary	Sp 5-31-12
6-8-12	GLP Residue training Webiners in 2012 Parlier, CA	Va. Vious	D/c 6-8-12
71-11-9	VC Pesticide Policy Parlier, CM	Rick Melnicoe	Sh 6-14-12
7-13-12	0 3	Various	Of 7-16-12
8-10-12	We biners in 2012 partier, CA	Va riois	Sp 8-10-12
21-41-6	We binars in 2012 Parlier, CA	Va rivus	Sh 9-14-12
10.30-12	GLP Residue Training Webinars on 2012 Parliercy	Listenselly of oct 12 Session Various	DAE 10-30-12
71-6-11	GLP Residue Training Webiners in 2012 Clouis, CA	Various	DE 11-13-12

SAFETY AND IR-4 TRAINING SESSIONS

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

EMPLOYEE NAME: DAUID E mos s

JOB TITLE: Director

tor 2K

Field Research

Original in UCKARE records
Initials: DK Date: 9-6-19

This is an exact copy of the original

OFF DR 1-10-13

	NOIL VOO HEINEMA CININI VAL	TRAINER	INITIAL S/DATE
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11-11-11	Webinars in 2012 Parlies, CA	Verious	N/ 12-4-12
0	GLP Residue Training	,	
1-8-183	webiners in 2013 Partier, CM	Various	D/ 1-8-13
27	IR-4 Maticaal Education	٠	
7-21,48-15		Various	DR 7-4-13
4-3-13	Ve Pesticide Folicy Parlier, OA	Lisa Blocker	10 pc 4-3-13
		*	
4-9-13	webingry in 2013 Parlier, OA	Various	Op 4-8-13
	,	, ,	
5-13-13	Respirator Fit Test Parlier, CA	Alan Cary	DK 5-13-13
	GLID Residue Training webinars	١	
8-13-13	in 2013 Cat Kive partiel, CA	Various	DR 8-13-13
	GLP Residue Training webinays in		1, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
8-13-13	Hold That Doormenta tien, Juy To cather	Various	Op 6-15-13
	Application verification and Sumple		!
8-13-13	Packing Perlier, CA	Various	10/2 co-15-13
	1 / 1	Lawrel	NK 0 ,0 17
2.37-13	San Antonio Texas	Barkalow	-12 1-12 -13

18

SAFETY AND IR-4 TRAINING SESSIONS

M1-11-12 DAVID ENNES EMPLOYEE NAME:

JOB TITLE: Field Rose, rch Direcker

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	EVENT DATE	TRAINING EVENT/LOCATION .	TRAINER	INITIALS/DATE
	41-11-1	Tocania + in 2014 Exp restolue Tocaning Hoffights of 5mert moves by our Freed Reserve Birectus Perhinach	Various	S/21-14-14
	h1-91-1	UC Perticide Policy Parlier, CA Lisa Blecker		Of 1-16-14
	3-4-14	Lesinia T in 2014 GL 10 Residue and Training I Per Green and Parlier of	Verious	0/23-4-14
1	3-26-14	Respirator Fit Fost Parlier, CA Alan Cary	Alun Ciry	Ch 3-20-14
2art	5-13-14	We being Crop Residue/62P training Session Parlies What's on your mind austions/answers/Disussion CA Various	Parlien CA Various	Dk 5-13-14
29	7-8-14	Webling Properties - /617 treining Sessions		Sk reix
		41-8-636		

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

FIELD ID NO:

Authentic Copy-Original in UCKARE Records St. 9-8-14

University of California Kearney Agriculture Research and Extension, IR-4 Program

9240 S. Riverbend Parlier, California 93648 Telephone (559) 646-6061 Facsimile (559)-646-6015

CURRICULUM VITAE

Name:

Keri M. Skiles

Title:

Field Research Director

Education:

Porterville College, Porterville, CA TAPP High School, Porterville, CA

Professional Training:

GLP Certification: Critical Aspects of Conducting GLP Field Studies and Regulatory Issues, 12/(17-18)/1998; FIFRA GLP Field & Analytical Training Session, 2/7/2001; GLPs for the Field, 1/(21-22)/2002; Western Region IR-4 GLP and Field Residue Training, 3/(5-6)/2002; Western Region IR-4 Residue Training Workshop (Field, Laboratory and GLP), 1/(17-18)/2007; Application of GLPs to Field Studies, 11/(12-13)/2007; Application of GLP's to Field Studies, 11/(13-14)/2008; IR-4 National Education Conference, 2/(24-25)/2009; Western Region IR-4 Residue Training Workshop (Field, and GLP), 2/(2-3)/2010; IR-4 National Education Conference, 2/(27-28)/2013

Field Study Related Training: 1998 - 2007: sponsor and facility specific SOPs, "Advantage" electronic field trial notebooks, radioactive materials safety; environmental heath and safety; Worker Protection Standard; FedEx dangerous goods seminars (DOT training)

Professional Experience:

1/2008 - Present

University of California, Kearney Research & Extension Center, Parlier, CA

Field Research Director - Responsibilities include: Coordination of all operations involving field agrichemical residue trials involving pesticides, efficacy and environmental fate studies and all documentation supporting such activities, and assuring that those activities are performed in accordance with the EPA's GLP Standards.

2/2007 - 12/2007

University of California, Kearney Research & Extension Center, Parlier, CA

Laboratory Assistant III - Under general supervision, conduct and/or supervise all aspects of GLP compliant IR-4 residue field trials. Perform the duties of a Field Research Director and assist other Field Research Director(s).

11/2006 - 2/2007

University of California, Kearney Research & Extension Center, Parlier, CA

University of California, Riverside

Laboratory Assistant II - Perform or supervise the technical conduct of IR-4 field research trials under the supervision of Laura Van der Staay, Staff Research Associate (KREC IR-4 Field Research Center Director), UC, ANR, KREC. Provide operational support to the KREC IR-4 Field Research Directors by generating and maintaining raw data documentation for field research trial activities; assure that those activities are GLP compliant. Perform or supervise standardized and recurring technical procedures in a research laboratory under the supervision of Dr. James E. Adaskaveg, Professor, UCR, Department of Plant Pathology.

3/2006 - 11/2006

Spartan Computer Services, Irvin, CA

Computer Technician - Repair and replace computer parts for restaurant point of sales and office computers. Re-image and trouble shoot computers. Repair and replace wiring.

2/2003 - 3/2006

Research For Hire, Porterville, CA

Research Assistant/Laboratory Coordinator - Manage all operations involving the maintenance or use of a radioisotope laboratory for C14 metabolic fate GLP compliant field research trials. Perform or supervise complex critical event components of GLP compliant field research trials. Maintain and calibrate GLP equipment. Perform or supervise the technical conduct of GLP compliant field research trials under the supervision of a Research Biologist. Generate and maintain GLP compliant raw data documentation for field research trial activities. Conduct quality control audits of Field Trial Notebooks to ensure GLP compliance. Train employees.

3/1998 - 2/2003

Research For Hire, Porterville, CA

Research Assistant - Perform or supervise the technical conduct of GLP compliant field research trials under the supervision of a)Research Biologist. Generate and maintain GLP compliant raw data documentation for field research trial activities. Conduct quality control audits of Field Trial Notebooks to ensure GLP compliance. Train employees.

Signature: Hu Klly	Initials:	V O	Date: $\frac{3}{3}/4$
Authentic Copy-Original in UCKARE Records	9-8-14	FIELD ID NO:	Pyrethrins+PBO/Mushroon

Ennes

Ennes

EMPLOYEE NAME:

SAFETY AND IR-4 TRAINING SESSIONS

Initials: Of Date: 9-8-14 This is an exact copy of the original Original in UCKARE records

ASSISTENT JOB TITLE:

EVENT DATE	TRAINING EVENT/LOCATION	TRAINER	INITIALS/DATE
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20/2/11	50		\rightarrow
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20/4/10	TY OD CONTROL DONINGA	7707 00/4	N/ 11/13/06
20/01/11	Ser Ser	Laura Ver Stan	20/PC/1 ()
90/6/11	Nora # 10	Alan Cara	20/11/61 W
00/11/6	2 3		10/cd W
2/1/6	LOUCKShop (Field, Caboratory Collective Co)		11/3/6/1
10/0/2	(3) Par 12, 12, 12, 12, 12, 12, 12, 12		10/4/16 N
1011/2	Hazar abus waste waste mean	Alan Cocu	L0/81/5 07
OSPETTING E	OSPENING ELTOR. UD NOGION @ SPENING ELTOR. W 3/2/09 CENTY ELTOR WIND & Loto entry. Wy 1/2/10	00 (3) (3) (4) (1) (1) (1) (1)	01/01/

Part 2 Page: 1

SAFETY AND IR-4 TRAINING SESSIONS

This is an exact copy of the original Original in UCKARE records

Initials: 2/2 Date: 8-6-14

JOB TITLE: Laboratory Assistant TIT EMPLOYEE NAME: Ennes

ATT A ST ENTER OF	TE ATMING EVENT/LOCATION	TRAINER	INITIALS/DATE
EVENT DATE	Opelia, A	David Ennes	10/19/2 W
C0/16/C	7	RICK Melvicoe	TO 4/9/07
10/1/0)	-	of Deborah Garvin	C0/61/11 W
0/51-61/11	Parcation of City to St Operlie CA	Mark Barros	80/00/CM
00/00/0	Delice Pires Arise CA	Rick Melnicoe	80/00/5 1
50/06/2	The First Studies	Dehorah Garvin	80/11/11 07
11/13-14/08	Paso Robles, CT To A Chiller CA	That Benzing	60/0e/, VI
60/se'he/6	IR-4 Nortional Education conference Vacious of	Various	601% OX
00,000	Control College CA	Rick Melnicoe	10 42/09
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70.01	DETENDING MICHIGAIN TROOP		

Part Page:

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SAFETY AND IR-4 TRAINING SESSIONS

This is an exact copy of the original Original in UCKARE records Initials:

JOB TITLE: Field Research Director

EMPLOYEE NAME: Keri SKIRS - LS 9/10/09

EXTENT DATE	TRAINING EVENT/LOCATION	TRAINER	INITIALS/DATE
	Western Kegion TR-4 Residue Maining	Various	W 2/3/10
	Cosofter Safe working Safely in the greenhouse	Video	NO 3/18/10
	Recorded Sit took Belief CA	Alon Caru	01/1/12
01-1-10		RICK Melnicse	01/08/10
11/8/01	Lic Pesticide Policy, Partier CA	Rick Mednicoe	10 chalu
11/2	Dorovets Sit text Police CA	Alen Cara	11/1/0)
(/2//	GLP Residue Training Webinar	Various	5/1/1/1/ OX
2/200	GLP Residue Training bubbinas in	Various	C/E/1/2 /
2/1/2/2	GLP Residue training webiner in	Varions	1039112
t//2//h	CCP Residue Training Webinor	Various	6413/12
O Entry error. 10 shells	B Est		

Part 1 Page: 13

SAFETY AND IR-4 TRAINING SESSIONS

This is an exact copy of the original Original in UCKARE records Initials: 2/2 Date: 9-2-14

EMPLOYEE NAME: Keri Skiles - 155/11/12

JOB TITLE: Fild Research

EVENT DATE		TRAINER	INITIALS/DATE
2/11/13	GLP Residue training Webinar in 2012	Various	1/2 5/1/1/2
8/31/13	Respicator Fit test, Parlies, CA	Man Cay	6/18/5 9
0/8/13	SOLA RESIGNA TRAINING BOLLOSPINATION OF LOCALIST CAR COLOMBILIST IN	Various	1/8/hg
8/1/h//a	_	RICK Melnicoe	6/14/19 Of
1/(5//4		Various	711/L M
E1/0//g	GCP Kesima Haining Webing 3012	Verious	11/2 8/14/17
91414	t	Various	1/h// 9
6//08/01		Listened to recording of OCT 12 Session, Various	K 10/30/14
1119/119	taining was not in 2512	Uar i ous	1 1/13/12
e1/4/61	Testa Bella CA	Various	TILLIA ON

Part 2 Page: 14

SAFETY AND IR-4 TRAINING SESSIONS

EMPLOYEE NAME: PROFIT SKILES 163

1/8/13

JOB TITLE: Fild Research Director

(0)04-01-	EVENT DATE	TRAINING EVENT/LOCATION	TRAINER	INITIALS/DATE
	1/8/13	GCP Kesique Training Webinar in	Various	2/18/1 91
-	2/1/88/13	TR-4 Notional Education Confirme Training San Antonio, TX	Various	16 3/6/13
	4/3/13	uc Pesticide, Police, Parlier CA.	Lisa Blecker	16 4/3/13
Pa	4/9/13	CLP Residue Training watering	Varions	64/9/13
Part	5/13/13	Resolvation 574 Test Parlier CA	Alen Cary	E//c//5 9
15	8-13-13	Fain ing	Various	8/18/139
	7	0	2	8/13/13
	3/27/13	San Antonio Hogram	Tammil Billalow	E1/6/69
	かりかり	ts abs	Various	S1/61/1 91
	11011	cidé Po	Lisa Blecke	11/11/1 91

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

FIELD ID NO:

Authentic Copy-Original in UCKARE Records

SAFETY AND IR-4 TRAINING SESSIONS

EMPLOYEE NAME:_

JOB TITLE: Field Research Director

	EVENT DATE	TRAINING EVENT/LOCATION	TRAINER	INITIALS/DATE
	HITE	System Good making they fee working against they fee working	1/21/045	11 34/14
NAME OF TAXABLE PARTY.	710KB	Broise At text Arlier CA	Alex Cary	1 20114
		with that chapter side / GLP training Sessions	A Various	6 5/13/14
		well-ind Cuspresidue/6LP Training Sessions: Mistakes, corrections, on Human Beans Porlige Various	Various	1/8/14
Par				
16		4-8-14		

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

1 8-8-14

FIELD ID NO:

Authentic Copy-Original in UCKARE Records

Notes & Communication Part 3

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 3. NOTES AND COMMUNICATION LOG

INSTRUCTIONS: This section is to be used to document phone calls, fax communications, and e-mails associated with the field trial (e.g. call to inform Study Director of deviation, call to the laboratory to notify that samples will be shipped tomorrow, etc.), notes on events that relate to the integrity of the research, and data for which there is no specified location in the Field Data Book or for continued entries or explanations to other sections. Follow instructions on data entry, error correction, etc. in the General Instructions. Printed communications such as faxes and email messages that are inserted into this section should be initialed and dated. More than one day's entry may be made on one page in the NOTES AND COMMUNICATION LOG. However, each day's entry must be dated and initialed. Additionally, if a day's entry continues on more than one page, both pages must have the day's entry dated. Photocopy and insert additional pages if needed. Draw a line through all unused space to signify that no additional entries will be made on that page. Initial and date the line. Several trials within the same study under one Field Research Director may be documented on one form; however SEPARATE STUDIES MUST BE DOCUMENTED ON SEPARATE FORMS. When several trials are documented, true copies of the communication records must be placed in each Field Data Book to which the comments apply. (The original

communication records must be placed in each Field Data Book to which the comments apply. (The original goes in one of the Field Data Books.)

ENTRY DATE/
INITIALS

NOTES (include date of event described)

OK 6-19-14

Talked with Munterey Mushroom

Craned on 6-17-14. The compost

that will be used for tratolando3

boxes was pastorized on 6-15-14

at 240°F.

7-9-14 OR Talked with Monterey Mushroom

personnel. I was told that the

mushroom boxes were cased on Set.

7-5-14

9-11-14 Dp The Information on Part 5 E and 5H
was obtained verbally from the grower.

GE _ Trial Year 2014

P/2 9.25-14

	PART 3 PAG	GE _ [Trial Year 2014	
Total number of pages in t	his section at initial pag	gination: 14		
COMPLETE IF APPROPRIATE:	"THIS IS A TRUE COPY	OF THE ORIGINAL"		
THE ORIGINAL IS IN IR-4 FIELD	D DATA BOOK NO.	INITIALS	DATE	

FIELD ID NO: _____

Ennes

IR-4 FIELD DATA BOOK

PART 3. NOTES AND COMMUNICATION LOG

ENTRY DATE/ INITIALS	NOTES (include date of event described)	
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	OR9-15-14	
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	PART 3 PAGE $\underline{\boldsymbol{\mathcal{L}}}$	Trial Year 2014

UNIVERSITY OF CALIFORNIA, DAVIS

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SANTA BARBARA • SANTA CRUZ

COLLEGE OF AGRICULTURAL & ENVIRONMENTAL SCIENCES AGRICULTURAL EXPERIMENT STATION

TEL: (530) 752-7633 FAX: (530) 752-2866 http://wrir4.ucdavis.edu

2-13-14

IR-4 PROGRAM, WESTERN REGION
DEPARTMENT OF ENVIRONMENTAL TOXICOLOGY
4218 MEYER HALL
ONE SHIELDS AVENUE
DAVIS, CALIFORNIA 95616

March 11, 2014

David Ennes UC Kearney Research and Extension Center 9240 S. Riverbend Ave. Parlier, CA 93648

Federal Express

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Re: 2014 Protocols

Pyrethrins+PBO/Mushrooms (White Button & Oyster), PR# 05954

Field ID No. 05954.14-CA52 (Fogging) (White Button) Field ID No. 05954.14-CA53 (Fogging) (Oyster)

Dear David,

Enclosed are two (2) original IR-4 National Pesticide Clearance Protocols and Field Data Notebooks for subject residue research trials. These items contain all the necessary information and forms for conducting IR-4 field research and reporting results in accordance with the EPA's Good Laboratory Practice (GLP) requirements. Please review these items prior to beginning your research. Note that the complete field and lab protocols are enclosed in accordance with GLP. Disregard Sections 25-34 as they pertain only to laboratory research.

Carefully read Debbie Carpenter's cover letters attached to the protocols instructing you how to initiate these trials. If the proposed directions meet with your approval, please provide estimated research dates for the Master Timetable and sign the GLP Certifications located on the cover letters. **Return the original signed copy of these letters to our office immediately.**

Please use the enclosed 14 residue sample bags for submitting samples to the laboratory. Inside each notebook are small trial identification labels which are to be affixed to <u>all pages</u> of the Field Data Notebooks. We have your 2014 revised Standard Operating Procedures (SOPs) on file. We assume you will be following these SOPs for these trials.

Thank you for agreeing to conduct this research. If you should have any further questions, please contact me at (530) 752-7634, email: rsisco@ucdavis.edu; Stephen Flanagan at (541) 688-3155, email: srflanagan@ucdavis.edu; or Mika Tolson at (530) 752-7635, email: mptolson@ucdavis.edu.

Sincerely,

Rebecca (Becky) Sisco
Regional Field Coordinator
Western Region IR-4 Program
University of California
Dept. of Environmental Toxicology
One Shields Avenue, Meyer Hall Room 4218
Davis, CA 95616-8588
530-752-7634 (office)
530-752-2866 (fax)
Email: rsisco@ucdavis.edu

RS/jh Enclosures

cc: Laura Van der Staay (via email)



David Ennes

From:

David Ennes

Sent:

Thursday, April 24, 2014 11:46 AM

To:

'Ken Samoil'

Subject:

05954.14-CA52 and CA53 Pyrethrins + PBO Mushroom

Importance:

High

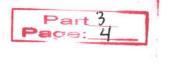
Ken: I have not received the test substance yet for these two trials. Possibly may start one of the trials 5-9-14.

Thanks,

David

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Dr 4-24-14



David Ennes

From:

Ken Samoil <samoil@AESOP.Rutgers.edu>

Sent:

Thursday, April 24, 2014 12:17 PM

To:

David Ennes

Subject:

Test substance shipments

I'm checking with the registrants...

Ken Samoil
Entomologist / Technical Coordinator
IR-4 Project
500 College Road East
Suite 201W
Princeton, NJ 08540

(732)932-9575 x4614 FAX: 609-514-2612

Email: samoil@aesop.rutgers.edu

Website: ir4.rutgers.edu

DR 4-24-14

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes



David Ennes

From:

David Ennes

Sent:

Friday, May 02, 2014 6:47 AM

To:

'Ken Samoil'

Cc:

Rebecca Sisco

Subject:

RE: 05954.14-CA52 and CA53 Pyrethrins+PBO Mushroom

Ken: Hopefully the test substance shows up soon. Will go ahead with the oyster variety. Will you be able to change the protocol for application 5 for the white button mushroom trial?

Thanks, David

From: Ken Samoil [mailto:samoil@AESOP.Rutgers.edu]

Sent: Friday, May 02, 2014 6:03 AM

To: David Ennes Cc: Rebecca Sisco

Subject: RE: 05954.14-CA52 and CA53 Pyrethrins+PBO Mushroom

David - I am hopeful that you will receive the test substance this month; I sent the registrant a reminder last month and got a response that they would "get right on top of it."

I think it is critical that we have a non-button mushroom trial. They could suggest another mushroom variety, if that is an option, or we could just wait until they resolve the issues with their oyster mushroom growing room.

Ken Samoil

Entomologist / Technical Coordinator

IR-4 Project

500 College Road East

Suite 201W

Princeton, NJ 08540 (732)932-9575 ×4614

FAX: 609-514-2612

Email: samoil@aesop.rutgers.edu

Website: ir4.rutgers.edu

From: David Ennes [mailto:djennes@ucanr.edu]

Sent: Thursday, May 01, 2014 5:39 PM

To: Ken Samoil

Subject: 05954.14-CA52 and CA53 Pyrethrins+PBO Mushroom

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes



OR 14

Ken: I talked with my contacts at Monterey Mushroom yesterday. They mentioned that for the white button mushroom trial that for application 5 the app would need to be made at days 8-15 of case hold so that there would be viable mushrooms for sampling 2 days after the application, the application would be made at day 15. I was wondering if you could write an amendment for this. Also they asked if my trials could be changed to two white button mushroom trials instead of an oyster mushroom since they are having trouble with the oyster growing room where the trial will be

conducted. Perhaps this could be done in the same amendment. If it is absolutely critical to do the oyster variety I will discuss with them if something else could be done, there is only one growing room at this time for the treated plot. The first application for the white button trial will be 6-19-14 so there is still time to receive the test substance for these two trials. Do you think the test substance will be delivered to me before then? If not I will reschedule the trials.

Thanks, David

OK 5-7-14





Pest Management Solutions for Specialty Crops and Minor Uses IR-4 Headquarters
Rutgers, The State University of New Jersey
500 College Road East, Suite 201W
Princeton, NJ 08540
732.932.9575 fax 609.514.2612
www.ir4.rutgers.edu

RECEIVED

TO:

David Ennes

FROM:

Deborah H. Carpenter

SUBJECT:

Pyrethrins + PBO/Mushrooms - BUTTON (Fogging)

Field ID No: 05954.14-CA52

This is an exact copy of the original

| S - G - 14 |
| Ipitials Date

WR IR-4

Thank you for agreeing to participate in the IR-4 Minor Use Research Program. We have assigned the above unique Field Identification Number for your phase of the study. Please use it on all correspondence, the IR-4 Raw Databook and other forms associated with this research. Please review your phase of the research protocol. Note, this protocol may be different from prior versions. Please provide estimated research dates for the Master Timetable and sign the GLP Certification below.

First Application of Test Pesticide: Residue Samples Collected:

Samples Transferred to Analytical Laboratory:

Field Databook Completed by Field Research Director:

6-19-14

7-22,30-14

10-15-14

GLP Certification:

I acknowledge that I have reviewed, and understand, the material contained in Sections 1 to 24 of this IR-4 Protocol. The field research will be conducted in accordance with this protocol which reflects EPA's Good Laboratory Practice Standards. I further acknowledge that written Standard Operating Procedures that have been properly approved by IR-4 management are available. Additionally, I will cooperate with the independent Quality Assurance Unit in scheduling needed inspections and documenting corrective actions taken.

Field Research Director (Date)

Return the original signed copy of this letter to your Regional/ARS Field Research Coordinator. If you have any questions contact your Regional/ARS Field Research Coordinator or me (732) 932-9575 ext 4637 or the study director.

CC:

Regional/ARS Field Research Coordinator IR-4 Quality Assurance Unit (Field)

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Part 3
Page: 8

David Ennes

From:

David Ennes

Sent:

Thursday, May 15, 2014 7:39 AM

To:

'Ken Samoil'

Cc:

Rebecca Sisco; Marylee Ross; Edith Lurvey

Subject:

RE: Rate for fogging applications in Pyrethrins+PBO/Mushroom/05954

DR 5-15-14

Ken: Okay. I will follow the 10 oz/gallon of water rate.

Thanks, David

From: Ken Samoil [mailto:samoil@AESOP.Rutgers.edu]

Sent: Thursday, May 15, 2014 5:55 AM

To: David Ennes

Cc: Rebecca Sisco; Marylee Ross; Edith Lurvey

Subject: RE: Rate for fogging applications in Pyrethrins+PBO/Mushroom/05954

David,

The rate that you mentioned is the low end of the allowable concentrations used for fogging indoor food areas. Those instructions also state that you can use up to 1 part to 11 parts water (1 quart with 3 gallons). The protocol instructions require a concentration of 10 ounces Evergreen to 1 gallon of water, which equals 30 ounces with 3 gallons, which is just under 1 quart (32 ounces) with 3 gallons.

You need to apply 10 ounces per 10,000 cubic feet of mushroom space. If I were to make the concentration more dilute, you would need to apply more water (as fog) to achieve this rate. I think that the concentration should remain as is. Let me know if this presents a problem with the use of your fogger.

Ken Samoil

Entomologist / Technical Coordinator

IR-4 Project

500 College Road East

Suite 201W

Princeton, NJ 08540 (732)932-9575 ×4614

FAX: 609-514-2612

Email: samoil@aesop.rutgers.edu

Website: ir4.rutgers.edu

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes



From: David Ennes [mailto:djennes@ucanr.edu]

Sent: Tuesday, May 13, 2014 4:46 PM

To: Ken Samoil Cc: Rebecca Sisco

Subject: 05954.14-CA52 and CA53

Ken: For the mushroom trials the test substance label has a rate of dilution on page 3 under space spray in food of 1 part with 29 parts water (1 qt. with 7.5 gallons of water). I didn't understand the example. I thought it would be 1 qt. in 29 quarts water? Would this be okay to use this rate for the trials?

Thanks, David

0k 5-15-14



David Ennes

From:

Jacqueline Hale <jbhale@ucdavis.edu>

Sent:

Thursday, May 15, 2014 2:28 PM

To:

David Ennes; 'Clark Oman'

Subject:

Signed IR-4 Protocol Cover Letters CO141, CO139, CA52, CA53

Attachments:

Signed IR-4 Protocol Let_20140515122148.pdf

Good afternoon, Don. Attached you will find the scanned letter to **Deborah Carpenter** regarding your Signed Protocol Cover Letters received in our office:

Dinotefuran/Apple

Dinotefuran/Cherry (Tart)

Pyrethrins+PBO/Mushrooms-BUTTON (Fogging)

Pyrethrins+PBO/Mushrooms-OYSTER (Fogging)

Field ID No. 11302.14-CA141

FRD – C Oman

Field ID No. 11302.14-CA141

FRD - C Oman

Field ID No. 05954.14-CA52

FRD - D Ennes

Field ID No. 05954.14-CA53

FRD – D Ennes

If you have any questions, please contact Becky Sisco (530) 752-7634. Have a great day.

Jackie

OR5-30-14

Jackie Hale

Office Manager Western Region IR-4 Program 4218 Meyer Hall One Shields Avenue Davis, California 95616

Tel: (530)752-7633 Fax: (530)752-2866 Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

Ennes



UNIVERSITY OF CALIFORNIA, DAVIS

BERKELEY * DAVIS * IRVINE * LOS ANGELES * MERCED * RIVERSIDE * SAN DIEGO * SAN FRANCISCO



SANTA BARBARA · SANTA CRUZ

COLLEGE OF AGRICULTURAL & ENVIRONMENTAL SCIENCES AGRICULTURAL EXPERIMENT STATION TEL: (530) 752-7633 FAX: (530) 752-2866 http://wrir4.ucdavis.edu

1R-4 PROGRAM WESTERN REGION DEPARTMENT OF ENVIRONMENTAL TOXICOLOGY 4218 MEYER HALL ONE SHIELDS AVENUE DAVIS, CALIFORNIA 95616

May 15, 2014

Deborah H. Carpenter IR-4 Project Headquarters Rutgers, The State University of NJ 500 College Road East, Suite 201 W Princeton, NJ 08540

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Federal Express

RE: Signed IR-4 Protocol Cover Letters

Dinotefuran/Apple Dinotefuran/Cherry (Tart)

Pyrethrins+PBO/Mushrooms-BUTTON (Fogging) Field ID No. 05954.14-CA52 Pyrethrins+PBO/Mushrooms-OYSTER (Fogging) Field ID No. 05954.14-CA53

Field ID No. 11302.14-CO141

Field ID No. 11302.14-CO139

DR 5-30-14

FRD - C Oman FRD - C Oman

FRD - D Ennes FRD - D Ennes

Dear Debbie,

We are forwarding four (4) signed protocol cover letters as submitted by the Western Region field research directors listed above. Estimated research dates for the Master Timetable have been provided and the GLP Certifications signed.

If you should have any additional questions, please contact our office.

Sincerely,

Rebecca Sis Rebecca (Becky) Sisco Regional Field Coordinator Western Region IR-4 Program 530-752-7634 (office) Email: rsisco@ucdavis.edu

RS/ih Enclosures

cc: David Ennes (via email) Clark Oman (via email)

University of California Kearney Agricultural Research and Ext., IR-4 Program

9240 S. Riverbend Parlier, California 93648

Telephone (559) 646-6061 Facsimile (559) 646-6015

FACSIMILE TRANSMISSION

Total Pages Sent: 3

DATE	August 14, 2014
ТО	X Study Director: Ken Samoil Company: IR-4 Headquarters FAX No: (609) 514-2612
,	X Regional/ARS Field Research Coordinator: Becky Sisco Company: Western Region IR-4 FAX No: (530) 752-2866
	Receiving Laboratory: Golden Pacific Laboratories Attention: Megan Boatwright FAX No: (559) 275-1800 Other: FAX No: 8-14-14
FROM	David Ennes
STUDY NO.	05954.14-CA52 Pyrethrins+PBO Mushroom

Notification of the following study related event(s) is either attached or reported below:

<u>X</u>	Sample	Shipment	(Shipment	Date):	August	14, 2014
----------	--------	----------	-----------	--------	--------	----------

Shipment Information (if not attached):

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Destination: Golden Pacific Labs

Courier: ACDS Bill of Lading Nos: 137667

No. of Boxes: 2 Sample Description(s)/Interval: 2 Days after App 5 and 6 Mushroom

Other information: See following forms Part 8A and 8B

O wrong fux number in protocol. Refuxed with correct number at 2:12 pm on 2-14-14 OR 8-14-14



David Ennes

From:

Megan Boatwright < mboatwright@gplabs.com>

Sent:

Friday, August 22, 2014 11:38 AM

To:

David Ennes; Rebecca Sisco

Cc:

samoil@aesop.rutgers.edu

Subject:

Receipt of mushrooms from CA

Attachments:

140542 mushrooms.pdf

Dear all,

Please find attached the paperwork confirming receipt of the mushroom samples from Kearney Agricultural Research in CA.

Sincerely,

OR 8-22-14

Megan

Megan T. Boatwright Laboratory Manager Golden Pacific Laboratories, LLC 4720 W. Jennifer Ave, Suite 105 Fresno, CA 93722 Tel: (559) 275-9091 Fax: (559) 275-1810 mboatwright@gplabs.com



Test Substance Part 4

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 4. TEST SUBSTANCE RECORDS

A. RECEIPT, STORAGE AND DISPOSITION OF TEST SUBSTANCE--INSTRUCTIONS:

Complete a separate form for each different batch/lot of test substance that has been received.

	Í		1 17	111161		
NAME OF TEST SUBSTANCE ON CONTAINER LABEL E.g. Darnitall 2 EC or GroundUp or XYZ8-0.	Evergi	reen Cl	rop Protecti	-7448) en 60-6		
BATCH/LOT NO. AB 45 86	DATE OF R	ECEIPT	5-13-	14		
Provide the batch/lot number of the test substance as it appears on the test material container label	TEST SUBS		3-10-2	2015		
Do not assign an expiration date if none is pro			,			
		wiil—diinka dibaawa i dibaawa wali	iner labe			
Note the source of the expiration date of the test substance (e.g.,	expiration date	te noted on te	est material container	label,		
expiration date listed on documentation provided by manufactur	er, expiration	date obtaine	ed by IR-4 Headquarte	rs)		
CARRIER THAT TRANSPORTED TEST SUBSTANCE			dEX			
INDIVIDUAL WHO RECEIVED TEST SUBSTANCE	-	DA	wid En	nes		
WAS A BILL OF LADING/WAYBILL RECEIVED?			YES_	NO		
BILL OF LADING/WAYBILL/TRACKING NO. Insert true copy if a Bill of Lading or Waybill was included in the	e shipment	790	88 3147	4995		
APPROXIMATE AMOUNT RECEIVED / Pint			OF CONTAINERS	1		
CONTAINER DESCRIPTION (glass bottles, water soluble pack	white	plustic 6	0+110			
CONDITION OF CONTAINER ON ARRIVAL (intact, bags broken, etc.) Good, in fact						
GLP STATUS KNOWN AT TIME OF RECEIPT (Check YES ig						
	manufacturer or information on the test material container claims that the test substance has been YESNO					
characterized per GLP requirements. If NO is checked, contact the Study Director.)						
IF "NO", ENTER THE DATE THAT THE STUDY DIRECTOR WAS INFORMED						
IF "YES", SOURCE OF GLP STATUS INFORMATION	*******************	Shipe	received v	ork		
Label, shipping form, etc. Insert the Certificate of Analysis (COA) in this FDB Part if a COA has been received. It is not necessary to insert the MSDS in this FDB. Two-sided documents should not be inserted.						
				1 1		
STORAGE LOCATION VCKARE Bldg						
Provide the location (building name, cabinet numbers, etc.) when	re the test subs	stance will be	e stored during the tri	al.		
WAS THE TEST SUBSTANCE HELD TEMPORARILY* IN A				./		
TRANSFER TO ITS LONG-TERM STORAGE LOCATION D				NO_		
*Temperature monitoring should begin within 2 days of receipt of	of the test subs	tance, regard	dless of where it is hel	d or stored.		
IF YES, ENTER LOCATION	DK	5-13-1	4			
DATES ESTIMATED TE	MPERATURE	E prior to mo	nitoring			
ABOVE DATA ENTERED BY: Ocuril &	Lun	er	DATE: 5-13	2-14		
PART 4 PAGE	l			Year 2014		
Total number of pages in this section at initial paginat	ion: <u>30</u>					
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO.	HE ORIGINAI INITIAI		DATE			
The second secon						

From: (763) 544-0341

Origin ID: AELA

Fed Exx.

Dain Thompson McLaughlin Gomley King Company 8810 10th Avenue N.

GOLDEN VALLEY, MN 55427

SHIP TO: (559) 646-6061

Keri Skiles Kearney Agucultural Center 9240 S RIVERBEND AVE

PARLIER, CA 93648

BILL SENDER



Ref#

Ship Date: 12MAY14 ActWgt: 4.0 LB CAD: 8538645/INET3490

Invoice # PO # Dept #

7988 3147 4995

TUE - 13 MAY 12:00P PRIORITY OVERNIGHT

NC VISA

93648 CA-US OAK



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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excess of \$100 per package, whether the result of loss, damage, delay, non-delivery misdelivery or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide

DR 5-13-14





Chain of Custody Letter

EVERGREEN® Crop Protection EC 60-6, Lot # AB4586, Trial No. 05954.14-CA52 -1 pint EVERGREEN® Crop Protection EC 60-6, Lot # AB4586, Trial No. 05954.14-CA53 -1 pint

These materials were chara	acterized under GLP.	
(Please Print Name)	Dain A. Thompson	
Signed The listed samples were se	nt to:	Date S//1//
Keri Skiles Kearney Agricultural Rese 9240 S. Riverbend Ave. Parlier, CA 93648		
The listed samples were red	ceived by	
(Please Print Name)	DAVID ENNES	
Signed	David Enner	Date 5-13-14
Please return a signed and o	dated copy of this letter to MGK.	
	Part 4 Page: 3	



CERTIFICATE OF ANALYSIS

DK 5-13-14

LOT# AB4586

MATERIAL EVERGREEN® Crop Protection EC 60-6

% Found	% Declared	% of Declared
3.56		
2.47		
6.03	6.00	100.5
58.34	60.00	97.2
55.60		
	3.56 2.47 6.03 58.34	3.56 2.47 6.03 6.00 58.34 60.00

Expiration Date: 3/10/2015

This material was characterized under GLP-2871.

Originally characterized under GLP-2797. Original results: Total Pyrethrins - 5.79%, Technical PBO-58.32%.

Signed

Brian M. Dunker

Date 3/10/14



Specimen Label

- Multi-purpose insecticide
- For use on growing crops, ornamentals, stored products, livestock and fruit fly control on harvested fruits and vegetables
- Used alone as a clean-up spray or a pre-harvest spray

ACTIVE INGREDIENTS:

Pyrethrins	6.00%
*Piperonyl butoxide, Technical	60.00%
OTHER INGREDIENTS	34.00%
	100.00%

*Equivalent to 48.00% (butylcarbityl) (6-propylpiperonyl) ether and 12.00% related compounds.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See pages 4 and 5 for first aid and precautionary statements.



DR 5-13-14

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

GENERAL PRECAUTIONS & USE RESTRICTIONS

- See separate directions and precautions for mosquito control applications.
- · Do not contaminate food or feedstuffs.
- Do not enter or allow others to enter until vapors, mists and aerosols have dispersed, and the area has been thoroughly ventilated.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Only protected handlers may be in the area during application.
- Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors and/or mists have dispersed.
- · Remove or cover exposed food and drinking water before application.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.
- For direct application to non-domestic animals/livestock: Do not apply more than 1 time per day.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.

- When used in indoor food handling/processing facilities: Do not make space spray
 applications when facility is in operation. During space spray applications, cover
 or remove exposed food. During space spray applications, cover food processing
 surfaces or clean after treatment with a suitable detergent, rinse with potable
 water before use. Do not apply more than 1 time per day.
- For food crops growing outdoors or in greenhouses in agricultural setting: Do not
 apply more than 10 times per season, Do not re-apply within 3 days except under
 extreme pest pressure. In case of extreme pest pressure, do not re-apply within
 24 hours. Do not harvest until spray has dried. Do not apply to cotton within
 14 days of seed harvest.
- For post-harvest applications to vegetables, fruits, nuts and other commodities:
 Do not re-apply within 7 days. Do not apply more than 10 times to sweet potatoes.
- For post-harvest applications to stored grains and seed: Do not re-apply within 30 days.
- For greenhouse grown ornamental, flowering and foliage plants: Do not apply more than 1 time per day.
- · Remove pets, birds and cover fish aquariums before application.



AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR, Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- · Coveralls:
- Chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton;
- · Shoes plus socks; and
- · Protective eyewear.

DK5-13-14

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR, Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

USED ALONE: This concentrate can be used also as a clean up or a pre-harvest spray where other materials cannot be used because of residue restrictions. Contains natural pyrethrins,

USED IN COMBINATION WITH OTHER INSECTICIDES: Evergreen® Crop Protection EC 60-6 may be combined with other insecticides and acaricides where resistance may be a problem and to provide a flushing of insects from hiding and into contact with other spray residues for quicker and more complete control. The application must conform to the accepted use precautions and directions for both products.

Prior to tank mixing, a compatibility test should be conducted using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

Tank mix applications must be made in accordance with the more restrictive of label limitations and precautions, No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

USE THROUGH IRRIGATION SYSTEMS (CHEMIGATION): Apply this product only through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for the operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the pump motor stops. The irrigation line or water pump must include a functional pressure valve that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must be a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of more dilute suspension per unit of time.

GROWING CROPS (OUTDOORS AND IN GREENHOUSES):

Apply 2 to 16 ounces per acre and repeat if required to maintain effective control. Use in sufficient water for thorough coverage of upper and lower leaf surfaces unless otherwise noted. This product may be applied by air in no less than 2 gallons of water per acre and by ground in no less than 10 gallons of water per acre. It is recommended that the final spray mix be buffered to a pH of 5.5-7.0.

This concentrate is relatively non-toxic to honey bees. To avoid possible harm to honey bees, it is advisable to apply in the early morning or late evening hours.

Evergreen® Crop Protection EC 60-6 may be used on most crops because its active ingredients are exempt from tolerances when applied to growing crops. The crop-grouping scheme used on this label was devised by the Environmental Protection Agency to expedite minor use pesticide registration.

ROOT AND TUBER VEGETABLES: Arracacha, Arrowroot, Purple Arrowroot, Japanese Artichoke, Jerusalem Artichoke, Garden Beets, Sugar Beets, Edible Burdock, Edible Canna, Carrots, Cassava (bitter or sweet), Celeriac (celery root), Chayote, Chervil (turnip rooted), Chicory, Chufa, Dasheen, Ginger, Ginseng, Horseradish, Leren, Parsley (turnip rooted), Parsnip, Potato, Radish, Japanese Radish (Daikon), Rutabaga, Salsify, Black Salsify, Spanish Salsify, Skirret, Sweet Potato, Tanier, Turmeric, Turnip, Yam (true), Yam Bean.

LEAVES OF ROOT AND TUBER VEGETABLES: Garden Beet, Sugar Beet, Edible Burdock, Carrot, Cassava (bitter or sweet), Celeriac (celery root), Chervil (turnip rooted), Chicory, Dasheen (taro), Parsnip, Radish, Japanese Radish (Daikon), Rutabaga, Black Salsify, Sweet Potato, Tanier, Turnip, Yam (true).

BULB VEGETABLES: (Allium spp.): Garlic, Great-headed Garlic, Leek, Onion (dry bulb and green), Onion, Welch, Shallot.

LEAFY VEGETABLES: Amaranth (Leafy Amaranth, Chinese Spinach, Tampala), Arrugula, Cardoon, Celery, Chinese Celery, Celtuce, Chervil, Cilantro, Corn Salad, Chrysanthemum (edible leaved), Chrysanthemum (garland), Cress (garden, water), Upland Cress (yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Fennel (Florence), Lettuce (head and leafy), Orach, Parsley, Purslane (garden & winter), Radicchio, Rhubarb, Spinach, Vine Spinach (Malabar, Indian), Spinach (New Zealand), Swiss Chard.

BRASSICA (COLE) LEAFY VEGETABLES: Broccoli, Chinese Broccoli (Gai Lan), Broccoli Raab (Rapini), Brussels Sprouts, Cabbage, Chinese Cabbage (Bok Choy), Chinese Cabbage (Napa), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Cavalo Broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens.

LEGUME VEGETABLES (SUCCULENT OR DRIED): Adzuki Beans, Field Beans, Kidney Beans, Lima Beans, Moth Beans, Mung Beans, Navy Beans, Pinto Beans, Rice Beans, Runner Beans, Snap Beans, Tepary Beans, Urd Beans, Wax Beans, Asparagus Beans, Black-eyed Peas, Catjang, Chinese Longbeans, Cowpeas, Crowder Peas, Southern Peas, Yardlong Beans, Broad Beans (Fava Beans), Chick Peas (Garbanzo Beans), Guar, Jackbean (Sword Bean), Lablab Bean (Hyacinth Bean), Lentils, Peas (Edible Pod Pea, Garden Peas, Field Peas, Sugar Snap Peas, English Pea, Snow Pea), Pigeon Peas, Soybeans, Sweet Lupin Beans, White Lupin Beans, White Sweet Lupin, Sword Bean.

FOLIAGE OF LEGUME VEGETABLES: Plant parts of any legume vegetable included in the legume vegetable group that will be used as animal feed including any variety of Beans, Field Peas, Soybeans.

FRUITING VEGETABLES: Eggplant, Ground Cherry, Okra, Pepino, Pepper (Bell Pepper, Chili Peppers, Cooking Peppers, Pimentos, Sweet Peppers), Tomatillo, Tomato.

CUCURBIT VEGETABLES: Balsam Apple, Balsam Pear (Bitter Melon), Chayote, Chinese Waxgourd (Chinese preserving melon), Chinese Cucumber, Citron Melon, Cucumber, Gherkin, Edible Gourds, Muskmelons (including hybrids, Cantaloupe, Casaba, Crenshaw, Golden Pershaw Melon, Honeydew Melons, Honey Balls, Mango Melon, Muskmelon, Persian Melon, Pineapple Melon, Santa Claus Melon, Snake Melon), Pumpkin, Squash (summer & winter), Watermelon (including hybrids).

CITRUS FRUITS: Calamondin, Citrus Citron, Citrus Hybrids, Grapefruit, Kumquats, Lemons, Limes, Mandarin (Tangerine), Orange (sweet & sour), Pummelo, Satsuma Mandarin, (Citrus spp. includes Chironja, Tangelos, Tangors).

POME FRUITS: Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental Pear, Quince.

STONE FRUITS: Apricot, Cherry (sweet & sour), Nectarine, Peach, Plum, Prune, Chickasaw Plum, Damson Plum, Japanese Plum, Plumcot.

SMALL FRUITS AND BERRIES: Blackberry, Blueberry, Cranberry, Currant, Dewberry, Elderberry, Gooseberry, Grape, Huckleberry, Loganberry, Olallie Berry, Raspberry (black & red), Strawberry, Youngberry.

TREE NUTS: Almond, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory Nut, Macadamia Nut (Bush Nut), Pecan, Pistachio, Walnut, Black and English (Persian).

ORIENTAL VEGETABLES: Acerola, Atemoya, Balsam Pear (bitter melon), Carambola, Japanese Artichoke, Chinese Broccoli (Gai Lan), Chinese Cabbage (Bok Choy, Napa),



Chinese Mustard Cabbage (Gai Choy), Dasheen, Ginger, Ginseng, Chinese Longbeans, Mung Beans, Citron Melon, Balsam Pear (Bitter Melon), Japanese Radish (Daikon), Chinese Spinach, Chinese Waxgourd, Cilantro, Citron Melon, Rambutan, Water Chestnuts.

SUBTROPICAL FRUITS: Avocado, Banana, Carob, Barbados Cherry, Cherimoya, Dates, Durian (Jackfruit), Feijoa, Figs, Guava, Kiwifruit, Lychee, Mango, Papaya, Passion Fruit, Paw Paw, Persimmon, Pineapple, Pomegranate.

ADDITIONAL CROPS: Artichoke, Asparagus, Avocado, Coffee, Cotton, Hops, Jojoba, Mushroom, Okra, Peanuts, Pineapple, Safflowers, Sesame, Sugar Cane, Sunflowers, Tea.

CEREAL GRAINS: Barley, Buckwheat, Corn (sweet and field), Millet, Oats, Pearl, Popcorn, Proso, Rice, Rye, Sorghum (milo), Teosine, Triticale, Wheat, Wild Rice.

FORAGE, FODDER AND STRAW OF CEREAL GRAINS: Barley, Buckwheat, Corn (sweet and field), Millet, Oats, Pearl, Popcorn, Proso, Rice, Rye, Sorghum (milo), Teosine, Triticale, Wheat, Wild Rice.

GRASSES FOR SEED, FORAGE, FODDER AND HAY: Any grass (Gramineal family, (green or cured), except sugarcane and those listed in the cereal grains group) that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage, Bermuda Grass, Bluegrass, Bromegrass, Fescue.

NON-GRASS ANIMAL FEEDS: Alfalfa, Velvet Bean, Clover, Kudzu, Lespedeza, Lupin, Sainfoin, Trefoil, Crown Vetch, Milk Vetch.

HERBS AND SPICES: Allspice, Angelica, Anise (Anise seed), Annatto, Balm, Basil, Borage, Burnet, Camomile, Caper Buds, Caraway, Black Caraway, Cardamon, Cassia Bark, Cassia Buds, Catnip, Celery Seed, Chervil Dried, Chives, Chinese Chive, Clary, Clove Buds, Coriander (cilantro or Chinese parsley leaf), Coriander (cilantro seed), Costmary, Cilantro, Cumin, Curry Leaf, Dill (dill weed), Dill (seed), Fennel (Italian and Sweet), Fenugreek, Grains of Paradise, Horehound, Hyssop, Juniper Berry, Lavender, Lemongrass, Lovage (leaf & seed), Mace, Marigold, Sweet Marjoram, Wild Marjoram, Mustard (seed), Nasturtium, Nutmeg, Parsley, Oregano, Mint, Paprika, Parsley, Pennyroyal, Pepper (black & white), Poppy Seed, Rosemary, Rue, Saffron, Sage, Savory, Summer and Winter Savory, Sweet Bay (Bay Leaf), Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff, Wormwood.

ORNAMENTALS: African Violet, Ageraturm, Aster, Azalea, Begonia, Cacti, Calceolaria, Calendula, Calla, Carmellia, Carnation, Ceanothus, Cineraria, Chrysanthemum, Coleus, Cyclamen, Cypress, Daffodil, Dahlia, Delpininium, Dogwood, Fern, Ficus, Foliage Plants, Fuschia, Gardenia, Geranium, Gladiolus, Gloxinia, Gypsophila, Holly, Hyacinth, Hydrangea, Iris, Lilies, Maidenhair Fern, Marigold, Juniper, Narcissus, Palm, Pansy, Pelargonium, Peony, Petunia, Philodendron, Phlox, Pine, Pyracantha, Rhododendron, Roses, Rubber Plant, Snapdragon, Stock, Sweet Pea, Tulips, Viburnum, Wandering Jew, Yew, Zinnia and Andromeda, Arborvitae, Ash, Beech, Birch, Boxwood, Cotoneaster, Crabapple, Dogwood, Elm, Euonymus, Fir, Firethorn, Forsythia, Hawthorn, Hemlock, Hickory, Holly, Honey Locust, Horse Chestnut, Juniper, Larch, Laurel, Lilac, Linden, Mimosa (Silk Tree), Myrtle, Oak, Pine, Privet, Tulip Tree, Viburnum, Willow, Yew.

FOR THE CONTROL OF INSECTS SUCH AS:

Aphids Cabbageworm Apple Maggot Cucumber Beetles Armyworms Deer Fly Artichoke Plume Moth Earwigs Asparagus Beetle Beet Armyworm Larvae Bagworm Eastern Tent Bean Beetles Blister Beetles Blow Flies Bliting Flies Boll Weevil Tip Moth Cabbage Looper Carrot Weevil Face Fly Carter Mite Caterpillars Fireworms Carrot Weevil Fire Ants Coder Mite Clover Weevil Flea Beetles Cockroaches Flies Lucumber Beetle Forest Tent Caterpillar Larvae Larva	Green Fruit Worm Green Peach Aphids Greenhouse Thrips Gypsy Moth adults & larvae) Harlequin Bug Heliothis sp. Hornets Hornets Hornworm Horse Fly House Fly Imported Cabbageworm Indian Meal Moth Imported Cabbageworm Idapanese Beetle Katydids Lace Bugs Leafhopper Leafrollers Leaftiers	Mexican Bean Beetle Midges Millipedes Mosquitoes Mushroom Flies Navel Orangeworn Onion Maggot Pear Psylla Potato Leafhopper Psyllids Rice Weevil Saw-toothed Grain Beetle Silverfish Skippers Sowbugs Stable Fly Stink Bugs Spiders Tabanidae Tarnished Plant Bug
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Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

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USE ON GREENHOUSE FRUIT, VEGETABLE, FLOWER AND FOLIAGE PLANTS:

USED ALONE: Combine 12 to 24 ounces of Evergreen® Crop Protection EC 60-6 with 100 gallons of water for applications with conventional hydraulic sprayers or 1 to 2 teaspoons per gallon of water for applications with compressed air sprayers.

USED IN COMBINATION WITH OTHER INSECTICIDES: To provide quick knockdown of insects when used with a residual insecticide, tank-mix 1 to 4 ounces of Evergreen® Crop Protection EC 60-6 with the proper amount of companion insecticide, tank mix 1 to 4 ounces of Evergreen® Crop Protection EC 60-6 with the proper amount of companion insecticide in 100 gallons of water and apply with a conventional hydraulic sprayer.

Applications must be made in accordance with the more restrictive label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

IMPORTANT NOTE: Plant safety is an important consideration when using insecticides in a greenhouse. However, it is not possible to evaluate the phytotoxicity of Evergreen® Crop Protection EC 60-6 towards numerous plant varieties that may react differently to insecticides in different growth stages or under varying environmental conditions. Before making widespread applications of Evergreen® Crop Protection EC 60-6, treat a limited number of plants and observe for phytotoxicity over a 10 day period.

FOR USE OUTDOORS ON TREES, SHRUBS, FLOWERS AND FOLIAGE PLANTS:



USED ALONE: Combine 12 to 24 ounces of Evergreen® Crop Protection EC 60-6 with 100 gallons of water for applications with conventional hydraulic and air blast sprayers or 12 to 24 ounces of Evergreen® Crop Protection EC 60-6 with 10 gallons of water for applications with low volume mist blowers or 1 to 2 teaspoons per gallon water for applications with compressed air sprayers.

USED IN COMBINATION WITH OTHER INSECTICIDES: To provide quick knockdown of insects when used with a residual insecticide, tank mix 1 to 4 ounces of Evergreen® Crop Protection EC 60-6 with the proper amount of companion insecticide in 100 gallons of water (10 gallons of water for low volume application with mist blowers) and apply with conventional hydraulic or air blast sprayers.

Applications must be made in accordance with the more restrictive label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

FOR CONTROL OF GYPSY MOTH CATERPILLARS AND ADULTS:

Combine 8 to 12 ounces of Evergreen® Crop Protection EC 60-6 with 100 gallons of water for applications with conventional hydraulic sprayers or 8 to 12 ounces of Evergreen® Crop Protection EC 60-6 with 10 gallons of water for applications with air blast sprayers. To provide quick knockdown or gypsy moth caterpillars when used with a residual insecticide, tank-mix 1 to 4 ounces of Evergreen® Crop Protection EC 60-6 with the proper amount of companion insecticide in 100 gallons of water (10 gallons of water for air blast sprayers) and apply with a conventional hydraulic sprayer.

Applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

USE INDOORS ON TREES, SHRUBS, FLOWERS AND FOLIAGE PLANTS:

USED ALONE: Combine 12 to 24 ounces of Evergreen® Crop Protection EC 60-6 with 100 gallons of water for applications with conventional hydraulic sprayers or 1 to 2 teaspoons of Evergreen® Crop Protection EC 60-6 per gallon of water for applications with compressed air sprayers.

USED IN COMBINATION WITH OTHER INSECTICIDES: To provide quick knockdown of insects when used with a residual insecticide, tank-mix 1 to 4 ounces of Evergreen® Crop Protection EC 60-6 with the proper amount of companion insecticide in 100 gallons of water and apply with a conventional hydraulic sprayer. Applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

USE WITH HYDROPONICALLY GROWN VEGETABLES AS A WATER SYSTEM TREATMENT:

To control aquatic diptera larvae, apply Evergreen® Crop Protection EC 60-6 to the water at the rates outlined in the following table:

6		10,000
6		10,000
16		10,000
	6	6



FOR USE AROUND HOMES AND OTHER BUILDINGS:

In grassy undeveloped areas use this concentrate at 1 part to 59 parts water to control foraging fire ants. Also spray grassy areas around yard borders liberally to control ticks that may carry Lyme Disease.

FOR USE ON HARVESTED FRUITS AND VEGETABLES:

Including apples, blackberries, blueberries, boysenberries, cherries, crabapples, currants, dewberries, figs, gooseberries, grapes, guavas, loganberries, mangoes, muskmelons, oranges, peaches, pears, peas, pineapples, plums, raspberries, tomafoes.

DIRECT SPRAY TO FRUITS IN BASKETS, ON TRUCKS OR IN PROCESSING PLANTS:

To control Drosophila spp., Tephritid spp. Fruit Flies, Vinegar Flies and other nuisance pests dilute this concentrate at the rate of 1 part with 1,200 parts water (1 pint per 150 gallons or 1 teaspoon per 12.5 pints water). Thoroughly mix the emulsion in the spray tank and treat as follows:

- 1) Apply liberally to fruits and vegetables in baskets, on trucks and in plants. Use sprayers at a high pressure for applying at the rate of five or six pints of diluted spray to a 2-ton load of produce. Direct the spray for maximum coverage of the baskets or hampers. It is important to spray between and beneath the containers,
- 2) Spray the raw stock stacked in the yard.
- Dip baskets in the diluted spray, after dumping the produce to kill adhering larvae and pupae.

FOR USE IN CANNERIES:

The entire space inside of the cannery should be sprayed after washing and cleaning up and just before bringing produce into it, with this product diluted 1 part to 29 parts of water (1 quart with 7.5 gallons water) up to 1 part to 11 parts of water (1 quart with 3 gallons water). Use 1 gallon of the spray per 750 square feet, directing it on walls, ceiling, and floors paying special attention to forcing the spray into all cracks and crevices for the control of ants, roaches, silverfish, crickets, spiders and cheese mites. This same dilution used as a space spray will give excellent control of fruit flies, houseflies, homets, grain moths, gnats, mosquitoes, and skipper flies. Use one ounce diluted spray per 1,000 cubic feet of space. Do not spray while the plant is in operation as dead flies may fall into containers or the products being processed.

AS A SPACE SPRAY IN FOOD AND NONFOOD AREAS OF FOOD PROCESSING PLANTS, INDUSTRIAL INSTALLATION, BAKERIES, RICE AND WHEAT MILLS, RESTAURANTS, TOBACCO WAREHOUSE, GRAIN ELEVATORS, HOMES, AND WAREHOUSES:

To kill flying insects such as fruit flies, house flies, hornets, wasps, grain moths, gnats, mosquitoes and skipper flies, dilute this concentrate at the rate of 1 part with 29 parts water (1 quart with 7.5 gallons water) up to 1 part to 11 parts water (1 quart with 3 gallons water). Use at the rate of 1/2 to 1 ounce of diluted spray per 1,000 cubic feet of space. Direct the space treatment upward and whenever practical, keep doors and windows closed for at least 10 minutes after application. The use of this product in food processing or food handling establishments should be confined to time periods when the plant is not in operation. Food should be removed or covered during treatments. All food processing surfaces should be covered during treatment or thoroughly cleaned before use.

Where oil residues are not undesirable, this product can be diluted at the rate of 1 part to 29 parts up to 1 part to 11 parts in deodorized base oil instead of water and applied as a space spray with any good type applicator such as mechanical or ULV fogger capable of producing particles of aerosol size.

CRAWLING AND FLYING INSECTS:

For control of accessible, exposed stages of CRAWLING INSECTS including, but not limited to, Ants, Cockroaches, Cadelles, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Dried Fruit Beetles, Drugstore Beetles, Grain Mites, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles, Spider Beetles, Yellow Mealworms and FLYING INSECTS including, but not limited to, Angoumois Grain Moths, Cheese Skippers, Fruit Flies, Fungus Gnats, Gnats, House Flies, Indian Meal Moths, Mosquitoes, Mediterranean Flour Moths, Small Flying Moths, Tobacco Moths, dilute 1 part of Evergreen® Crop Protection EC 60-6 with 11 parts of water or oil (10.67 ounces per gallon) and apply at the rate of 1 ounce per 1,000 cubic feet of space. Direct the spray towards the ceiling and upper corners of the area and behind obstructions. Vacate the treated area and keep the area closed for at least 30 minutes after treatment. Ventilate the area before reoccupying. Repeat treatment as necessary.



USE AS A SURFACE SPRAY IN HOMES, RESTAURANTS, FOOD PROCESSING PLANTS, INDUSTRIAL INSTALLATIONS AND WAREHOUSES:

To control accessible, exposed stages of crawling insects including, but not limited to, Ants, Cockroaches, Cadelles, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Dried Fruit Beetles, Drugstore Beetles, Grain Mites, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles, Spider Beetles, Yellow Mealworms, clilute 1 part Evergreen® Crop Protection EC 60-6 with 59 parts water and apply at the rate of 1 gallon to 750 square feet, paying special attention to force the spray into all cracks and crevices.

Except in Federally inspected meat and poultry plants, food processing operations may continue when this product is applied as a surface spray with care and in accordance with the directions and precautions given above.

To control accessible, exposed stages of crawling insects including, but not limited to, ants, cockroaches, cadelles, cigarette beetles, confused flour beetles, dark mealworms, dried fruit beetles, drugstore beetles, grain mites, red flour beetles, rice weevils, saw-toothed grain beetles, spider beetles, yellow mealworms, dilute 1 part Evergreen® Crop Protection EC 60-6 with 19 parts of water and apply at the rate of 1 gallon to 750 square feet, paying special attention to force the spray into all cracks and crevices.

FOR USE ON SWEET POTATOES IN STORAGE:

For control of Fruit Flies and Vinegar Flies dilute this concentrate at 1 part to 19 parts water (6.4 fluid ounces per gallon). Apply as a space fog with a mechanical fogger capable of producing particles of aerosol size at the rate of 1 gallon diluted spray per 100,000 cubic feet of space. Apply only when flying insects are present. Several applications may be necessary during period of heavy infestation, but do not make more than 10 applications

FOR USE ON STORED PRODUCTS:

This concentrate can be used at the rate of 1 part to 29 parts up to 1 part to 11 parts water or deodorized base oil can be used on rice, barley, beans, birdseed, buckwheat, cocoa beans, corn, cottonseed, flax, oats, grain nuts, dried fruit, almond nutmeat and shells, walnut nutmeat and shells, pistachio, dried prunes, dried apricots, raisins, figs, wheat, rye, sorghum, tobacco and peanuts held in storage for control of the accessible stages of Almond Moths, Angoumois Grain Moths, Cadelle Beetles, Cigarette Beetle, Confused Flour Beetles, Flat Grain Beetles, Granary Weevils, Indian Meal Moths, Red Flour Beetles, Rice Weevils, Rusty Grain Beetles, Saw-toothed Grain Beetles, Square-necked Grain Beetles, and Tobacco Moths.

SURFACE TREATMENT OF STORED GRAIN AND SEED:

To control Indian Meal Moths, Angournois Grain Moths and Mediterranean Flour Moth, monthly inspections should be made after the grain is placed in storage. If the top two or three inches are infested, dilute 1 part Evergreen® Crop Protection EC 60-6 with 19 parts of water and apply at the rate of 1 to 2 gallons per 1,000 square feet of grain. Rake the mixture into the grain to a depth of 4 inches.

FOR USE AS A GRAIN PROTECTANT:

This concentrate when diluted with water and sprayed directly on grains will effectively protect the grain against grain storage insects for a full season or approximately 8 months. Dilute at the rate of 1 part to 29 parts water (1 quart with 7.5 gallons water). Thoroughly mix the emulsion and apply at the rate of 4 to 5 gallons per 1,000 bushels of grain as it is carried along a belt or as it enters the auger or elevator. This concentrate may be used in combination with a registered fumigant for use on heavily infested stored products.

ON ALMONDS, PEANUTS AND WALNUTS IN BULK OR IN BAGS:

To control stored product insects such as Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cigarette Beetles, Confused Flour Beetles, Drugstore Beetles, Flat Grain Beetles, Granary Weevils, Indian Meal Moths, Lesser Grain Borers, Maize Weevils, Mediterranean Flour Moths, Merchant Grain Beetles, Red Flour Beetles, Rice Weevils, Rusty Grain Beetles, Saw-toothed Grain Beetles and Square-necked Grain Beetles, dilute 1.5 ounces of Evergreen® Crop Protection EC 60-6 per gallon of water and apply as a coarse wet spray over the top of stored nuts or the outside surface of stacked bagged nuts at the rate of 4 gallons per 1,000 square feet. Apply at weekly intervals for about 6 weeks and then at 15-day intervals. The first two applications should be applied at the rate of 2 gallons per 1,000 square feet and subsequent treatments should be applied at the rate of 2 gallons per 1,000 square feet.

FOR USE IN STORAGE SITES:

This concentrate can be used to treat grain and seed in warehouse bins and trucks, cargo ships, mills, bin hoppers, elevators and conveying equipment as a clean-up prior to using them for storage. In mills and elevators, all infested accumulations of grain should be removed from the bin hoppers. All storage areas and conveying equipment should be thoroughly cleaned by sweeping out the waste grain, cobwebs and other debris from the walls and rafters as well as on the floor and door frames with special attention to material lodged in the cracks and crevices. All of the debris should be removed and burned to kill eggs and insects that might be present.

For farms, particular attention should be given to cleaning up around the used feed and grain bags, grain residues from wagons, harvesting equipment and feed troughs. Newly harvested grain should not be placed in the same bin with carry-over grain and all carry-over grain stocks that are not treated with grain protectant should be fumigated. These cleaning operations should be done within two or three weeks before harvest.

After above sanitation measures have been employed, spray all areas prior to use for storage with 1 part to 29 parts water (1 quart with 7.5 gallons water) up to 1 part to 11 parts (1 quart with 3 gallons water). Apply at the rate of one gallon per 750 square feet on walls, floors, ceilings and partition boards of bins, paying particular attention to forcing the spray into all cracks and crevices.

Monthly inspections should be made. If the top 2 or 3 inches are found to be infested, re-treat applying at the rate of 1 to 2 gallons of diluted material per 1,000 bushels of stored product.

FOR USE AS A LIVESTOCK AND POULTRY SPRAY:

- 1) To kill and repel horn flies, houseflies, mosquitoes and gnats, dilute at the rate of 1 to 2 fluid ounces per gallon of water and apply to wet the hair thoroughly with particular attention to topline, underline, flanks, withers and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers.
- 2) To kill and repel stable flies, horse flies, and deer flies, dilute at the rate of 2 to 3 fluid ounces per gallon of water and apply at a quart per adult animal to wet the hair thoroughly with particular attention to the legs, flanks, barrel, topline and other body areas commonly attacked by these flies. Repeat treatment each week as needed.
- 3) To kill and repel face flies dilute at the rate of 2 fluid ounces per gallon of water and apply using spray which produces large wetting droplets. Apply to the face of the animal in the morning before releasing to pasture. Apply sufficiently to wet the face but not more than 1-1/2 ounces per animal. Repeat daily as needed.
- 4) For effective control of biting and sucking lice on cattle, horses, sheep, goats and hogs, dilute at the rate of 1 quart with 75 gallons of water (1 fluid ounce with 2 gallons) and spray to thoroughly wet the hair of the animal including the head and brush of the tail. Repeat treatment in 10 days to kill newly hatched lice.
- 5) To control poultry lice, using a dilution of 2 to 3 ounces of concentrate per gallon of water spray roosts, walls and nests or cages thoroughly. It is not necessary to remove poultry from the housing unit during treatment. This should be followed by spraying over the birds with a fine mist.
- 6) For control of bed bugs and mites on poultry and in poultry houses, dilute at the rate of 2 to 3 fluid ounces per gallon of water and spray crevices of roost poles, cracks in walls and cracks in nests where the bed bugs and mites hide, followed by spraying over the birds with a fine mist.
- 7) To control sheep "tick" or ked, dilute at the rate of 1 to 2 fluid ounces per 4 gallons of water and thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool. Treat at a rate sufficient to wet the animal.
- 8) To kill fleas and ticks on livestock and pets, and to obtain protection against reinfestation, dilute at the rate of 2 fluid ounces per gallon of water and wet the animal by dipping or spraying. For best results against fleas and ticks on dogs and cats the kennels and/or animal quarters and bedding should be treated.

FOR USE IN BARNS, DAIRIES, MILKING PARLORS, MILKING ROOMS AND POULTRY HOUSES:

To control flying insects including, but not limited to, Flies, Fruit Flies, Mosquitoes, Gnats, Wasps, Hornets and Small Flying Moths, dilute at the rate of 2 fluid ounces per gallon of water. Apply as a fog or fine mist (at approximately 2 ounces per 1,000 cubic feet of space), directing the nozzle for maximum coverage and above livestock and poultry toward the ceiling and upper corners of the area being treated. For best results, close doors and windows before spraying, and keep them closed for 10 to 15 minutes. Applicator should vacate the treated area and ventilate it prior to returning. Repeat application as necessary.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a warm, dry area. Always store pesticides in the original container. Store away from food and pet food.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Op 5-13-14

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid contact with skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber or Viton, Selection Category E). Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE) [Professional]

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and other handlers who may be exposed to the dilute and/or concentrate through application or other tasks must wear:

- · Long-sleeved shirt and long pants:
- Chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton;
- · Shoes plus socks; and
- Protective eyewear.

In addition to the above PPE, applicators using hand- held foggers in an enclosed area must wear a half-face, full-face or hood-style NIOSH-approved respirator with:

- A dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC-21C), or
- A canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or
- · A cartridge or canister with any R, P, or HE filter.

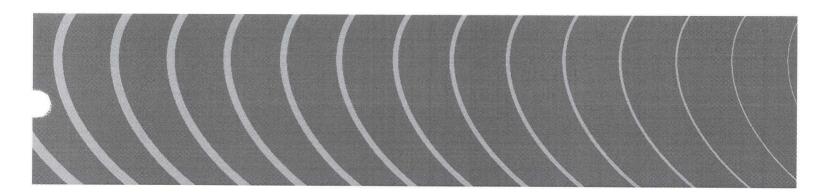
See engineering controls for additional requirements.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.





ENGINEERING CONTROLS

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(6)].

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

User Safety Recommendations:

Users should:

- . Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet,
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and run-off may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through run-off. This product has a potential for run-off for several weeks after application, Poorly draining soils and soils with shallow water tables are more prone to produce run-off that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Except as specified in the directions for use, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

See separate directions and precautions for mosquito control applications.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- ** Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may call 1-888-740-8712.

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Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes





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EPA Reg. No. 1021-1770



EPA Est. No. 1021-MN-2



MANUFACTURER

8810 10th Avenue North

Date Issued: 6/15/2009 MSDS No: 007448CP Date-Revised: 4/24/2014

Revision No: 2

EVERGREEN® Crop Protection EC 60-6

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EVERGREEN® Crop Protection EC 60-6

PRODUCT DESCRIPTION: A Multi-Purpose Insecticide for use on Growing Crops.

PRODUCT CODE: 7448A, EPA REG. NO.: 1021-1770

ACTIVE INGREDIENT(S): Pyrethrins; Piperonyl Butoxide

24 HR. EMERGENCY TELEPHONE NUMBERS

FOR TRANSPORTATION:

CHEMTREC® U.S. and CANADA: 1(800) 424-9300 CHEMTREC® All Other Areas: 1(703) 527-3887

Pyrethrins+PBO/Mushroom

ID No. 05954.14-CA52 Ennes

Minneapolis, MN 55427
Emergency Contact: SafetyCall®
E-Mail: mgk-sds@mgk.com

McLaughlin Gormley King Company

Emergency Phone: 1(888) 740-8712

Alternate Emergency Phone: 1(952) 852-9509

Service Number: 1(800) 645-6466

COMMENTS: MGK® Hours of operation are 8:00 am to 4:30 pm CST, 14:00 to 22:30 GMT.

For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to 1-888-740-8712.

2. HAZARDS IDENTIFICATION

GHS (CLA	SSI	FIC	AT	IONS
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Health	Environmental
Acute Toxicity (Oral), Category 4 Acute Toxicity (Inhalation), Category 4	Aquatic-Acute, Category 1 Aquatic-Chronic, Category 1

GHS LABEL



Environment (GHS 09)

WARNING



Exclamation mark (GHS 07)

WARNING

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H302: Harmful if swallowed. H332: Harmful if inhaled.

PRECAUTIONARY STATEMENT(S)

Prevention:

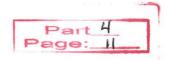
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P270: Do no eat, drink, or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.



Response:

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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SAFETY DATA SHEET (GHS)



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P330: Rinse mouth. P391: Collect spillage.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of contents/container to an approved waste disposal plant.

COMMENTS: This material is considered hazardous by the 2012 OSHA Hazard Communication Standard [29 CFR 1910.1200(a)(1)], and the G.H.S.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Pyrethrins	6	8003-34-7	232-319-8
Piperonyl Butoxide	60	51-03-6	200-076-7

COMMENTS: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

INHALATION: Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: For skin effects, a highly efficient therapeutic agent for pyrethrin exposure is topical application of tocopherol acetate (Vitamin E).

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: This product is NOT classified as flammable or combustible by OSHA.

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.



HAZARDOUS COMBUSTION PRODUCTS: This product is classified as Non-Combustible, however in the extreme temperatures that fires may produce, some of the constituents of this formula may decompose to give off such gases as carbon dioxide, carbon monoxide, and nitrogen oxides.

FIRE FIGHTING PROCEDURES: Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with



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appropriate absorbent such as sand, or vermiculite. Clean spill area of residues and absorbent.

LARGE SPILL: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, storage tanks, etc., via drains, pumps, etc. Absorb with appropriate absorbent such as sand or vermiculite. Clean spill area of residues and absorbent. DK 5-13-14

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Contains Pyrethrins, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state, and federal regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not use or store near heat, sparks, open flame, or any other ignition sources.

HANDLING: Wear OSHA-approved safety glasses with side-shields, safety goggles, or a full face-shield. Wear chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton. Wear a long-sleeved shirt, long pants, shoes and socks.

Applicators using hand-held foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with a dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC-21C), or a canister approved for pesticides (MSHA/ NIOSH approval number prefix TC-14G), or a cartridge or canister with any R, P or HE filter.

Do not contaminate water, food or feedstuffs by storage, handling, or disposal. READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE PRODUCT LABEL.

STORAGE: Store in a cool, dry place. Keep container closed. Always store pesticides in the original container. Store away from food and pet-food.

KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OS	SHA HAZARDOUS COM	PONENTS	(29 CFR19	10.1200)				
		EXPOSURE LIMITS						
		OSHA PEL				SupplierOEL		
Chemical Name		ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	
Pyrethrins	TWA		5		5	47		
Piperonyl Butoxide	TWA	None		None		None		

ENGINEERING CONTROLS: Ventilate treatment area thoroughly before re-entry.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear OSHA-approved safety glasses with side-shields, safety goggles, or a full-face shield.

SKIN: Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton, and wear protective clothing.

RESPIRATORY: Applicators using hand-held foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with a dust/ mist filtering cartridge (MSHA/ NIOSH approval number prefix TC-21C), or a canister



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approved for pesticides (MSHA/ NIOSH approval number prefix TC-14G), or a cartridge or canister with any R, P or HE filter.

PROTECTIVE CLOTHING: Wear chemical-resistant gloves, shoes and socks, long-pants, and a long-sleeved shirt.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

OTHER USE PRECAUTIONS: AGRICULTURAL USE REQUIREMENTS:

Use this product only in accordance with its labeling and with the Woker Protection Standard, 40 CFR, Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), and restricted-entry interval. The requirements listed below only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls;

Chemical-resistant gloves, such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton;

Shoes plus socks;

Protective eyewear.

COMMENTS: NON-AGRICULTURAL USE REQUIREMENTS:

The requirements in this section apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR, Part 170). The WPS applies when this product is used to treat agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Sweet, solvent-odor.

APPEARANCE: Clear, amber-brown colored liquid.

COLOR: Gardner Scale 7

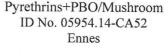
pH: 5.10

Notes: @ 10% in water.

FLASHPOINT AND METHOD: > 93.3 °C (200 °F) TAG Closed Cup

VAPOR DENSITY: Heavier than air. FREEZING POINT: Not Available

SOLUBILITY IN WATER: Partially miscible in water. **SPECIFIC GRAVITY:** 1.017 (Water = 1) at $20 \,^{\circ}$ C (68 $^{\circ}$ F) **VISCOSITY #1:** 57.5 CPS at $22 \,^{\circ}$ C (71.6 $^{\circ}$ F) Brookfield





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(VOC): < 1.000 %

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Not compatible with strong acids or bases. Not compatible with strong oxidizers.

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

Ennes

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 5000 mg/kg

Notes: Albino rabbit.

ORAL LD₅₀: > 3129 mg/kg

Notes: Albino rat.

INHALATION LC₅₀: > 5.06 mg/L

Notes: Rats exposed for 4 hours to test atmosphere. The Acute Inhalation LC50 of this material places it in EPA Toxic

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Category IV.

EYE EFFECTS: Irritation clearing within 48 hours.

SKIN EFFECTS: Moderate irritation at 72 hours. Produced a primary skin Irritation Index of 3.5

SENSITIZATION: Positive.

COMMENTS: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Carcinogenicity/ Oncogenicity - Slightly elevated incidences of benign tumors of the thyroid and liver were seen in rats following lifetime administration of high doses of Pyrethrins. Further detailed scientific studies into the mode of action responsible for these effects show that:

- 1) Because of biological species differences, the rat thyroid tumors are not relevant to humans.
- 2) The rat liver tumors occur in animals only at doses greatly exceeding human exposure levels and that cause cell proliferation (mitogenesis).

Based on these data, the USEPA has classified Pyrethrins as "Not Likely to be Carcinogenic to Humans," at doses that do not cause a mitogenic response in the liver/ cell proliferation. Thus, Pyrethrins can be considered to be non-carcinogenic at exposure levels relevant to human use of Pyrethrins-containing products.

Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: ENVIRONMENTAL HAZARDS FOR TERRESTRIAL APPLICATIONS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and run-off may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through run-off. This product has a potential



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for run-off for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce run-off that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Except as specified in the "Directions for Use" (on the product label), do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

ENVIRONMENTAL HAZARDS FOR WIDE-AREA MOSQUITO ADULTICIDE APPLICATIONS

This pesticide is toxic to aquatic organisms, including fish and invertebrates. Run-off from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates.

When applying as a wide-area mosquito adulticide, before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/ or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease-causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

When applying as a wide-area mosquito adulticide, do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: To avoid wastes, use all materials in the containers by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (NOTE: such programs are often run by state or local governments, or by industry).

EMPTY CONTAINER: Non-refillable container. DO NOT reuse or refill this container.

Triple-rinse container (or equivalent) promptly after emptying. Then, offer for recycling if available, or reconditioning if appropriate, or puncture and dispose of container in a sanitary landfill, or by other procedures approved by state and local authorities.

Triple-rinse as follows for containers less than < 5 gallons (< 18.9 L) or less: Empty the remaining contents into application equipment or a mix-tank and drain for 10 seconds after the flow begins to drip. Fill the container \(^{1}/_{4}\) full with water and re-cap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple-rinse as follows for containers greater than > 5 gallons (> 18.9 L): Empty the remaining contents into application equipment or a mix-tank. Fill the container ¹/₄ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Repeat this procedure two more times.



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Container Handling [for Refillable Containers]:

Refillable container. Refill this container with pesticide ONLY. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mixtank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 hours. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then, offer for recycling if available, or reconditioning if appropriate, or puncture and dispose of container in a sanitary landfill, or by other procedures approved by state and local authorities.

RCRA/EPA WASTE INFORMATION: This product contains the following RCRA/CERCLA Hazardous wastes/substances:

Component, RCRA ID#, CERCLA RQ:

Pyrethrins, N/A, 1 Lb.

0/25-13-14

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. RQ (Pyrethrins)

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 1 Lb. (Pyrethrins/ Pyrethrum)

OTHER SHIPPING INFORMATION: This material is not regulated as a hazardous material by the DOT in quantities less than 16.67 Lbs.

Shipping name for quantities less than 16.67 Lbs. : Insecticides, Insect or Animal Repellents, Liquid, N.O.S.

AIR (ICAO/IATA)

SHIPPING NAME: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. RQ (Pyrethrins)

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

NOTE: This material is not regulated as a hazardous material by IATA in quantities less than 16.67 Lbs.

Shipping name for quantities less than 16.67 Lbs.: Insecticides, Insect or Animal Repellents, Liquid, N.O.S.

VESSEL (IMO/IMDG)

SHIPPING NAME: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. RQ (Pyrethrins)

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

MARINE POLLUTANT #1: Pyrethrins/ Pyrethrum



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15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes

313 REPORTABLE INGREDIENTS:

COMPONENT, CAS#, Max %

Piperonyl Butoxide, 000051-03-6, 60.0

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

See Section 13 of this MSDS for the components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4).

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

REGULATIONS

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS (VOC):

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This product contains less than 1% VOC's.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

NOTE: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

CAUTION. Harmful if swallowed. Avoid contact with skin, eyes, and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE):

Mixer's, loaders, and other handlers:

Wear OSHA-approved safety glasses with side-shields, safety goggles, or a full face-shield. Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton. Wear a long-sleeved shirt and long pants, shoes and socks.

Applicators using hand-held foggers in an enclosed-area must also wear the following additional PPE:

Wear a MSHA/ NIOSH-approved respirator, such as a half-face, full-face, or hood-style NIOSH-approved respirator with a dust/ mist 'iltering cartridge (MSHA/ NIOSH approval number prefix TC-21C), or a canister approved for pesticides (MSHA/ NIOSH approval number prefix TC-14G), or a cartridge or canister with any R, P or HE filter.

16. OTHER INFORMATION

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REVISION SUMMARY: This MSDS replaces the 1/31/2011 MSDS. Revised: Section 1: PRODUCT CODE. Section 2: CHRONIC EFFECTS, EMERGENCY OVERVIEW - IMMEDIATE CONCERNS POTENTIAL HEALTH EFFECTS (SKIN, SKIN ABSORPTION, INHALATION, INGESTION). Section 7: STORAGE. Section 9: (VOC). Section 11: ACUTE - INHALATION LC₅₀ (rat) SKIN EFFECTS. Section 12: ECOTOXICOLOGICAL INFORMATION, ENVIRONMENTAL DATA. Section 13: EMPTY CONTAINER. Section 14: AIR (ICAO/IATA) - UN/NA NUMBER DOT (DEPARTMENT OF TRANSPORTATION) - UN/NA NUMBER VESSEL (IMO/IMDG) (MARINE POLLUTANT #1, PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP). Section 15: FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT), STATE REGULATIONS.

HMIS BATING

HEALTH	2	
FLAMMABILITY	1	
PHYSICAL HAZARD	1	326.2523
PERSONAL PROTECTION	ı	7

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HMIS RATINGS NOTES: We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 2, 7, and 8 of this MSDS.

COMMENTS: The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

MSDS Prepared by T. Azzivitto



FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 4. TEST SUBSTANCE RECORDS

	T .	IS	D .	r	1	-
R	- 1	1	н.			

INSTRUCTIONS: Complete a separate form for each different container of test substance used. Insert records on form or provide equivalent information. Indicate use of the stated container of the test substance by recording the dates that test substance was removed, the amount of test substance removed on each date, the purpose of the use (include trial ID# for all uses on IR-4 studies), and the initials of the individual responsible for the removal.

CHEMICAL NAM	E Evergi	cen Crop Protection 60-6	
BATCH/LOT NUI	MBER AB	4586 CONTAINER ID #1	
		NCE Amber liquid	
DESCRIPTION O	FTEST SUBSTA	e.g. brown liquid, white powder. Note any unusual characteristics	or changes here.)
ABOVE DATA EN	TERED BY:	Owal Luce DATE:	6-19-14
	AMOUNT		
DATE REMOVED	(<i>UNITS</i>) REMOVED	PURPOSE (include trial ID#) [e.g. apply treatments, used in other research, etc.]	INITIALS/DATE
6-19-14	14.6 ml	05954.14-CA52 Application1	DK 6-19-14
6-20-14	14.6m1	05954.14-CA52 Application 2	
6-25-14		05954.14-CA52 Application 3	OR 6-25-14
7-9-14	14.6m1	05954.14- CA52 Application 4	DR 7-9-14
7-20-14	14.6ml	05954.14-CA52 Applications	DK7-20-14
7-28-14	14.6ml	05954.14-CA52 Application 6	DR7-28-14
		, ,	
		¥*	
		OR 7-28-14	
		PART 4 PAGE 20	Trial Year 2014

COMPLETE IF APPROPRIATE:	"THIS IS A TRUE CO	DPY OF THE ORIGINAL"		
THE ORIGINAL IS IN IR-4 FIELD I	DATA BOOK NO	INITIALS	DATE	

FIELD ID NO: Ennes
IR-4 FIELD DATA BOOK

PART 4. TEST SUBSTANCE RECORDS

C. DISPOSITION OF TEST SUBSTANCE CONTAINERS

INSTRUCTIONS: Complete the appropriate part (PART 1, PART 2 or PART 3) that best explains the disposition of the test substance containers after the completion of applications for the trial or provide equivalent information. Line-out the parts that do not apply to this trial.

to not apply to this intain.
PLEASE NOTE: Test substance containers may not be discarded without prior approval from the Study Director or confirmation that the study has been completed (final report signed by the Study Director) or cancelled. Field Research Directors may contact the Study Director or their Regional Field Coordinator to determine if a waiver from EPA permit proper test substance container disposal, or regarding completion of the final study report (study completion confirmation can also be determined from an IR-4 database search using the "Test Substance Container Disposal Approval" link). Alternatively, some registrants will archive the test substance container(s).
PART 1 If the container(s) were shipped and are no longer in the Field Research Director's possession, indicate where the containers were shipped (include address and to whose attention), date of shipment, carrier, bill of lading number and the name of the individual responsible for shipment. A chain of custody form should be included in the shipment. The Field Research Director may use a form on the letterhead of his/her facility, or the form on the IR-4 website: ir4.rutgers.edu/FoodUse/FieldBook/TSCOC
SHIPPED CONTAINERS TO
Dk 9-8-14
DATE SHIPPED CARRIER BILL OF LADING NO.
SHIPPED BY
PART 2
If the containers will remain in the possession of the Field Research Director, indicate location where the containers are stored.
STORING CONTAINERS AT: UCKARE Bldg 117 Room 11 IR-4 Locker OF 9-8-14
OK 9-8-14
PART 3
If containers were not handled by any of the above methods briefly explain how they were handled.
D/2 9-8-14
ABOVE DATA ENTERED BY: Etwil Euro DATE: 9-8-14
PART 4 PAGE 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. INITIALS. DATE

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 4. TEST SUBSTANCE RECORDS

D. IDENTIFICATION AND RECEIPT OF SPRAY ADDITIVES

NOTE: The use of spray additives with the test substance must be approved in the protocol or in a protocol amendment. Spray additives are <u>not</u> considered test substances, thus no statement of GLP compliance or non-compliance is required.

INSTRUCTIONS: Complete one section of the form for each spray additive used in the trial.

Also, place a copy of the label after this page.

	1 5	
NAME OF THE SPRAY ADDITIVE ON CONTAINE	R LABEL	
ACTIVE INGREDIENT(S)		· · · · · · · · · · · · · · · · · · ·
TYPE OF SPRAY ADDITIVE:		ANT (NON-SILICONE)
SILICONE SURFACTANT CROP OII	CONCENTRATE	VEGETABLE OIL
METHYLATED SEED OIL METHYL	ATED SPRAY OIL	
OTHER: There were no	additives rece	ived of used
DATE OF RECEIPT OR 9-11-19	RECEIVED BY	
BATCH/LOT NO. [If this information is not available,	check here:]	
EXPIRATION DATE [If this information is not available	le, check here:]	
AMOUNT RECEIVED		
CONTAINER DESCRIPTION (e.g. glass bottles)		
CONDITION ON ARRIVAL (e.g. good, bags broken,		
ABOVE DATA ENTERED BY:		DATE:
NAME OF THE SPRAY ADDITIVE ON CONTAINE	R LABEN	
ACTIVE INGREDIENT(S)	\	
TYPE OF SPRAY ADDITIVE:		ANT (NON-SILICONE)
SILICONE SURFACTANT CROP OII		
	ATED SPRAY OIL	
OTHER:		
DATE OF RECEIPT		
BATCH/LOT NO. [If this information is not available,		
EXPIRATION DATE [If this information is not available		
AMOUNT RECEIVED		
CONTAINER DESCRIPTION (e.g. glass bottles)		
CONDITION ON ARRIVAL (e.g. good, bags broken,		
ABOVE DATA ENTERED BY:		DATE:
PART 4	PAGE <u>22</u>	Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE	COPY OF THE ORIGINAL"	
THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO		LSDATE

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 4. TEST SUBSTANCE RECORDS

77	OTTO AT	OTOD AC	OT OUTTO OUT	THE MATTER A	TITTI	00
H	(HENAIL AL	SICIRAL	E BUILDING	THMPHRA	IIIKHI	()(T

INSTRUCTIONS: Use this (or an equivalent) form when chemical storage building temperatures are taken manually. For each day that temperatures are taken, directly record the date, the minimum and maximum air temperature, the degree units (°F or °C) and provide the initials of the person entering the data. When temperature records are monitored automatically, the original or certified true copy of the output (data logger disk, computer printout, etc.) must be placed in the Field Data Book.

UNIQUE IDENTIFIER FOR TEMPERATURE RECORDER: Holo ID: Chemical-2
Enter Temperature Recorder ID—may be make/model/serial# or assigned identifier.

DATE	TEMP MIN/MAX	INITIALS	DATE	TEMP. MIN/MAX	INITIALS	DATE	TEMP MIN/MAX	INITIALS
								12
V			Refe	r to th	c follo 9-8-14	wing	pages	
				Oh	9-8-14		, ,	
				,				

Please enter the overall minimum and maximum <u>storage</u> temperatures below, even if temperature printouts are inserted. The overall min/max temperatures should not include temperatures during

transportation between storage and field. If there are two or more test substances (or separate shipments

of test substance), then enter separate min/max temperatures below for each one, depending on the dates of receipt and application.

Test Substance 1: Ever green Crop Protection 60 6

Minimum test substance storage temperature between receipt and last application in this trial: 48°F

Maximum test substance storage temperature between receipt and last application in this trial: 88

Minimum test substance storage temperature between receipt and last application in this trial: Maximum test substance storage temperature between receipt and last application in this trial:

Maximum test substance storage temperature between receipt and last application in this trial:

Unless otherwise noted above, all temperature units are in (Check one): °C °F

Above data entered by: Ocivil Enez Date 9-8-14

PART 4 PAGE 23

Trial Year 2014

COMPLETE IF APPROPRIATE:	"THIS IS A TRUE COPY OF T	ΓHE ORIGINAL"		
THE ORIGINAL IS IN IR-4 FIELD DA	TA BOOK NO.	INITIALS	DATE	36

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

MEMO to the FILE

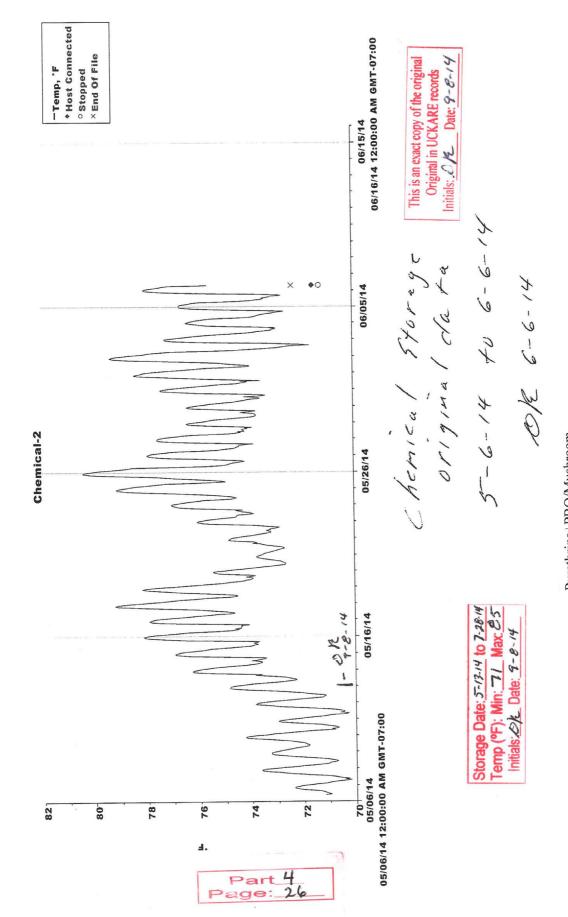
The trest substance container was removed
from chemical storage at 7:25 Am on 6-19-14
The container was placed into a cooler with
blue ice, min/met thermometer mm-6 is
in the cooler with the test substance
Ofe 6-20-14 min/max thermometer reading
on 6-20-14 at 6:30 Am 50°/70° F. Placed the T-5
Container into Chemical Storage at 2:20 Pm
Min/max reading in cooler at this time 580/880 F
DR 6-24-14 The T.S. Container was removed from
Storage at 3:00 pm on 6-14-14 and placed into a
looler with blue ice and min/mat thermometer mm-6
DR 6-25-14 T-S. Container back into Storage
at 11:25 Am on 6-25-14 min/max reading 500/720 F.
OR 7-8-14 The T.S. Container has removed from storage
at 7:507m on 7-8-14 and placed into a cooler with blue
ice and min/max thermometer mm-6.
DR 7-9-14 The T.S. Container placed back into Chemical
Storage room at 11:54 Amon 7-9-14 min/max reading 48 /820F
DR7-19-14 The T.S. Container was removed from storage
at 11:50 Am on 7-19-14 and placed into Cooler with blucice
and min/max thermometer mm-6
DJE 7-21-14 The T-5. Container was placed back into Storage
a+ 6:45 Am at of 87-21-14 min/met reading 500/820 F
0 EE 0 R7-21-14 PART 4 PAGE 24
ABOVE DATA ENTERED BY: Owil Cundition DATE: 7-21-14
Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. INITIALS DATE

FIELD ID NO:

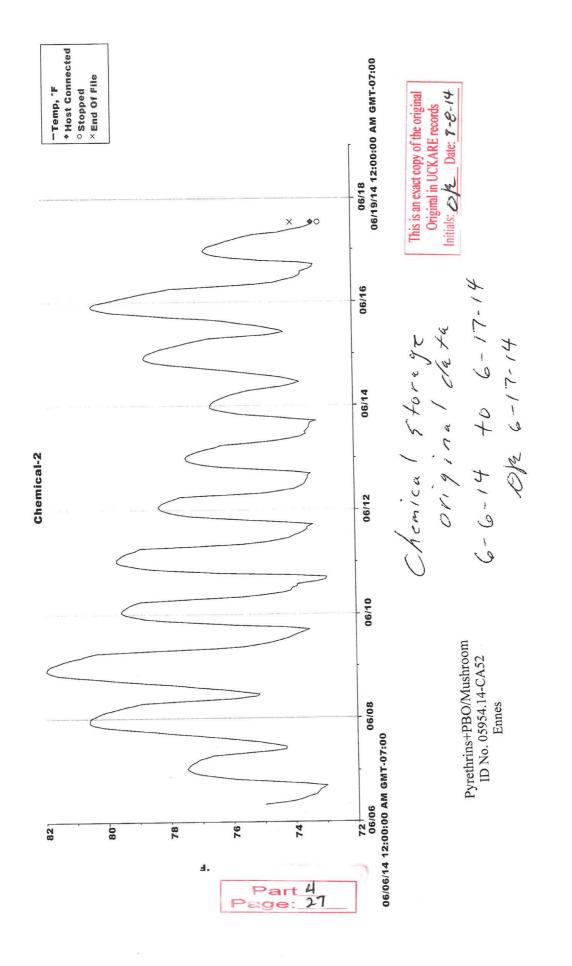
IR-4 FIELD DATA BOOK

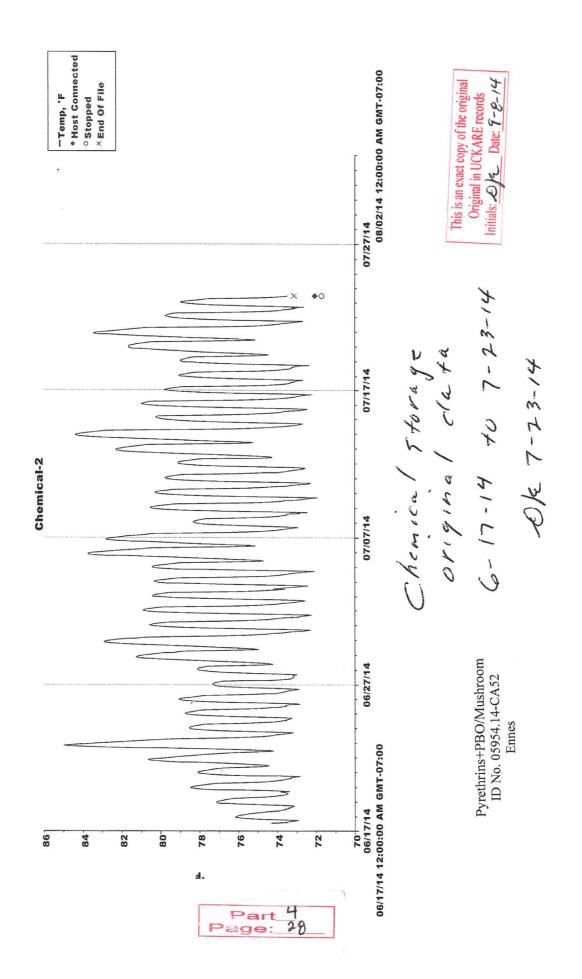
MEMO to the FILE

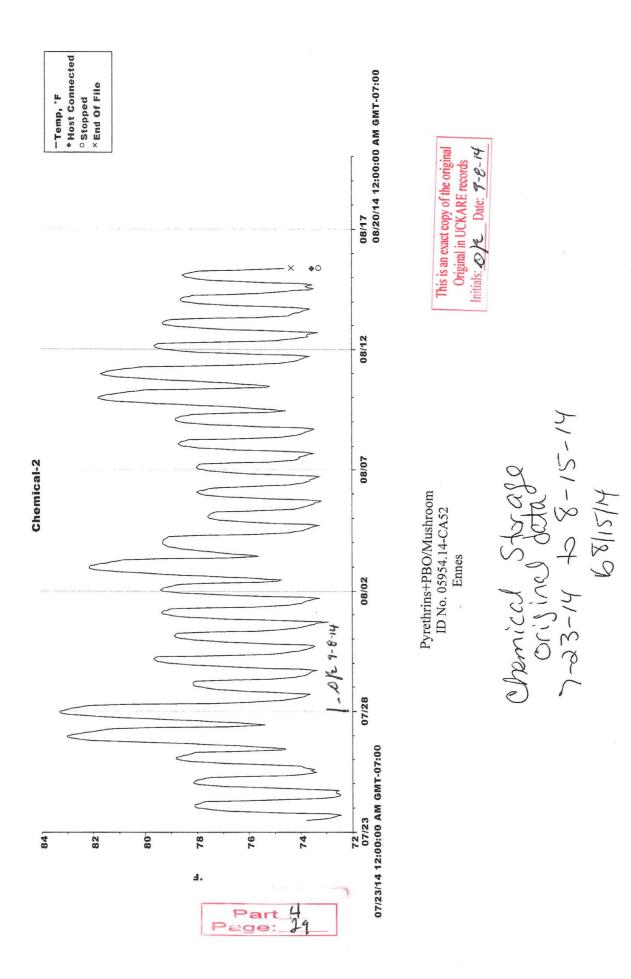
The T.S. Container was removed from storage
on 7-25-14 at 3:25 PM and placed into a
Cooler with blue ice and minimat thermometer
mm-6
10/2 7-28-12 The T.S. Container was placed
buck into Chemical Storage on 7-28-14 at
12:46 Pm min/max reading 570/80°F
Ok 9-8-14
PART 4 PAGE 25
ABOVE DATA ENTERED BY: Owil Emer DATE: 7-25-14
Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"
THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO INITIALS DATE



Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes







FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 4. TEST SUBSTANCE RECORDS

F. BALANCE CALIBRATION CHECK

INSTRUCTIONS: Complete this form or provide equivalent information when the test substance is a dry formulation. Check balance calibration by weighing standard weights that bracket the desired measurement. Record: date(s) that the balance calibration was checked, the standard weights, and the results. In addition, provide dates and a brief description of maintenance and repair work completed on the balance relevant to the trial. Be sure to initial all entries.

Date	Stated W/t	Decembed W/4	Ctotod W/t	Recorded Wt.	Tuitie1-
Date	Stated Wt.	Recorded Wt.	Stated Wt.	Recorded Wt.	Initials
		The tes	+ Substan Scale Va 9-8-14	ce was a	liquid
		50 10	Scale Va	5 used	
		OK	9-8-14		
		1			
			1		
	-	 			
				L	
If more than o Recorded Wt.	ne weight is used = Actual recorded	I mass of the standar DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	the individual weights. NANCE AND
If more than o Recorded Wt.	ne weight is used = Actual recorded TES AND BRIEF	to attain the standard mass of the standard DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	
If more than o Recorded Wt.	ne weight is used = Actual recorded TES AND BRIEF	to attain the standard mass of the standard DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	
If more than o Recorded Wt.	ne weight is used = Actual recorded TES AND BRIEF	to attain the standard mass of the standard DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	
If more than o Recorded Wt.	ne weight is used = Actual recorded TES AND BRIEF	to attain the standard mass of the standard DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	
If more than o Recorded Wt.	ne weight is used = Actual recorded TES AND BRIEF	to attain the standard mass of the standard DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	
If more than o Recorded Wt.	ne weight is used = Actual recorded TES AND BRIEF	to attain the standard mass of the standard DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	
If more than o Recorded Wt.	ne weight is used = Actual recorded TES AND BRIEF	to attain the standard mass of the standard DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	
If more than o Recorded Wt.	ne weight is used = Actual recorded TES AND BRIEF	to attain the standard mass of the standard DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	
If more than o Recorded Wt.	ne weight is used = Actual recorded TES AND BRIEF RK DONE ON BA	to attain the standard mass of the standard DESCRIPTION O	d weight, indicate rd weight(s)	on the lines below	

Trial Site Part 5

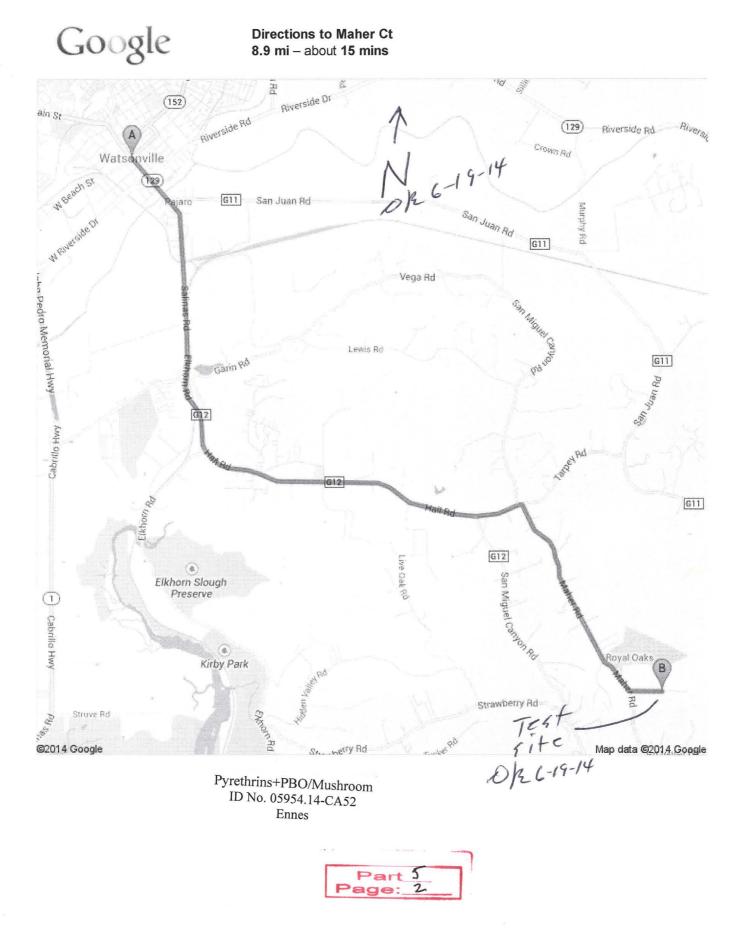
FIELD ID NO: ______Ennes IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION:

A. DIRECTIONS TO TEST SITE

INSTRUCTIONS: Indicate the name and location (street, town, state) of the test site (e.g. Banana Research Center, Rt. 3, Nenana, AK), the county (e.g. Denali), and provide directions from the nearest city or town **or** provide a map to the test site. The map can be sketched here; otherwise attach a clear photocopy or computer printout of the appropriate section of a state or county map with the test site location marked and the highways, nearest city or town identified.

NAME AND LOCATION Monterey Mushroom Biotech Leb 777 Maher Court Watsonville, CA 95076 COUNTY Monterey
777 Maker Court watsonville CA 95076
COUNTY Monterey
DIRECTIONS FROM NEAREST CITY OR TOWN TO THE TEST SITE pages Dk 6-19-14 Refer to the following pages Dk 6-19-14
a for to the following fat
Ketel 10
Refer to the following pages who 6-19-14
ABOVE DATA ENTERED BY: Paris Euro DATE: 6-19-14
PART 5 PAGE Trial Year 2014
Total number of pages in this section at initial pagination: 15
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"
THE ODIGINAL IS IN ID A FIELD DATA BOOK NO INITIALS DATE





Watsonville, CA

	1.	Head southeast on Main St toward Peck St About 2 mins	go 0.5 mi total 0.5 mi
	2.	Continue onto Porter Dr	go 0.3 mi total 0.7 mi
	3.	Continue onto Salinas Rd About 2 mins	go 1.4 mi total 2.1 mi
ኅ	4.	Turn left onto Elkhorn Rd/Hall Rd Continue to follow Hall Rd About 5 mins	go 3.9 mi total 6.0 mi
5	5.	Slight left onto San Miguel Canyon Rd	go 0.5 mi total 6.4 mi
4	6.	Turn right onto Maher Rd About 4 mins	go 2.2 mi total 8.6 mi
4	7.	Turn left onto Maher Ct About 1 min	go 0.3 mi total 8.9 mi
(B)	Ma	aher Ct	

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2014 Google

Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.

DR 6-19-14

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes



FIELD ID NO:

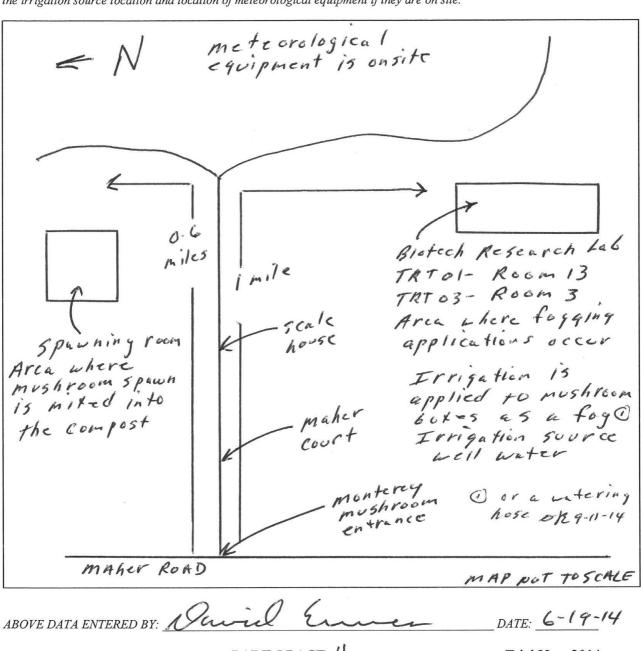
Ennes

IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION:

B. DIRECTIONS TO TEST PLOT AREA

INSTRUCTIONS: Provide the general direction with distances from the entrance of test site to test plot area (indicate North direction) or provide a map containing this information. (The entrance must be clearly indicated on the map.) Also indicate the irrigation source location and location of meteorological equipment if they are on site.



PART 5 PAGE 4 Trial Year 2014

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"
THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. ______ INITIALS ______ DATE_____

FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION:

C.1. PLOT PLAN

INSTRUCTIONS: Legibly sketch on the next page the actual plot plan. Computer-generated plans are acceptable. Check off the required items in the table below to confirm that they have been included in the plot plan:

Required items in the plot plan	1
The dimensions and locations of treated and untreated plots*	V
Dimensions and locations of buffer zones	~
Distances to permanent landmarks from at least two plot corners per plot	NA
(Optionally from two plot centers per plot for perennial crops)	70/11
Distance between the untreated plot and all treated plots in this study	-
The north direction	~
Slope direction with an arrow pointing down slope	2
The number of rows* and/or beds and their direction	NA
Label plot replicates (if applicable)	NIA
Distances and relative locations of immediately adjacent plots treated with test	,
chemicals that are not part of the trial covered by this Field Data Book.	NA
(Adjacent plots more distant than 50 feet/15 meters for row crops, or 100 feet/30 meters	'
for tree fruits and nuts, from the plots in this trial do not need to be included.)	
Identity of the test chemical(s) used on the adjacent plots	NA
Exception: Proprietary compounds that cannot be identified because of a secrecy	
agreement may be labeled as "experimental compound" in this Field Data Book.	
It is acceptable to have the information for the adjacent plots on a separate map that is	inserted
in this section behind the plot plan. In that case the plot plan would only have the	he items
indicated for the trial plots. The information for the adjacent plots may alternatively	be listed
in a table beneath the plot plan; see "Part-5C alternate" on the IR-4 website.	
Initials and date of the person who checked off items above: 2 /2 6-19-14	

^{*}Items marked with an asterisk are also required in 5F; please enter on both pages for clarity.

Global Position System readings are acceptable for permanent reference points only if SOP's kept at the testing facility cover their use, accuracy, and precision. Also provide the date the test plots were measured and staked, the initials of the individual responsible for laying out the plots and the SOPs (include revision number) used in laying out the plots.

ID No. 05954.14-CA52 Pyrethrins+PBO/Mushroom

IR-4 FIELD DATA BOOK

PART 5 TRIAL SITE INFORMATION:

TAICI J.	TREAD SITE IN ORIVER HON.
C.2. PLOT	ALC KHILL
DATE OF	PLOT LAYOUT 6-19-14 PERFORMED BY DJE SOP UTILIZED 30-2.4
Are there a	adjacent plots treated with test substances as described in part 5.C.1? TES NO
If a global	position system (GPS) was used for plot location, enter GPS-related SOP utilized
г	N Biotech N Biotech Research Lab Building
Poorie entrance	11 in (6.52 A) 5/0 pe 7ft HT 4in 7ft 4in 7534) Room 13 TRT 01
	0905/ope 1 29 ft Research facility mushroom growing rooms 9 ft sin
Dooree entrance	Room 3 7 ft TRT 8 in e3 (7.674) Ht ft 10 in
ABOVE DA	PART 5 PAGE L Trial Year 2014
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FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION:

D. SITE AND SOIL INFORMATION CHARACTERISTICS

INSTRUCTIONS: Furnish soil description and classification information for the plot area. This information shall be transcribed from USDA Soil Conservation Service soil maps containing description of the soil series, land class capabilities, and soil characteristics or via soil sampling and laboratory analysis of the soil. All supporting information shall be placed in the IR-4 Field Data Book directly following this page.

SITE IDENTIFIER	Monter	ed M	ogh room Research Lab and 13
ESTIMATE OF SLOPE PE	ERCENTAGE IN	PLOT	0%
TAXONOMIC NAME OF	SOIL IN PLOT	ree fo	Howing pages for details on post in boxes and supplement
SOIL TEXTURE/TYPE (e.	g., sandy loam)	Com	added to Compost
SOIL TEXTURE PERCEN	TAGES	SAND	SILT Ok 9-214 CLAY
ORGANIC MATTER %	pН		CATION EXCHANGE CAPACITY (CEC) in meq/100 g
IF YES, INCLUDE A LIST	CRFORMED, COL	NTS (copy	may be inserted): THE FOLLOWING AND INSERT THE ORIGINAL OR CERTIFIED EPORT DIRECTLY FOLLOWING THIS PAGE.
SOIL SAMPLE DATE	PE EPRESENTATIV	RFORMEI Æ OF SITI	O BY SOP UTILIZED E? (Check one) YES NO \[\mathcal{J}_{\begin{subarray}{c} \eqric \eq
-			
DATE SOIL SAMPLE SHI NAME AND ADDRESS O			
ABOVE DATA ENTERED	BY: Dan	vil	DATE: 9-8-14
	n	PART 5	PAGE Trial Year 2014
COMPLETE IF APPROPRIA THE ORIGINAL IS IN IR-4 I			OPY OF THE ORIGINAL"INITIALSDATE

David Ennes

From:

CHarvey@montmush.com

Sent:

Tuesday, June 24, 2014 12:41 PM

To:

David Ennes

Cc:

CRobles@montmush.com

Subject:

Crop Variables - IR-4 Pyrethrins + PBO Trial

Attachments:

ITF Room Cleaning Protocol.doc

Hi David,

Here is the information you requested on major test crop variables.

So nice to see you again!

Cathy

Agaricus Mushroom Compost:

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Ingradiant	Wet Wt.	% of
Ingredient	(lbs)	Total
STRAW	44000	13.7
RACE TRACK	222000	69.2
DPW	23000	7.2
AMMONIUM SULFATE	3725	1.2
GYPSUM	16000	5.0
UREA	300	0.1
CSM	12000	3.7
		100.0

OK 6-14-14

Pleurotus (Oyster Mushroom) Log Substrate:

Cottonseed Hulls

78.5%

Rye Grain

10.5%

Spawn Mate II SE

9.5% (soybean meal based supplement similar to what is used in Agaricus crops)

Calcium Carbonate

1.5%

Nutritional Supplement Used at Spawning:

Part 5 Page: 8

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Ennes

IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION

E. TEST SITE HISTORY FORM

INSTRUCTIONS: Complete this form **or** provide equivalent information. Enter all pesticide and fertilizer applications for the time period specified in the protocol. Note the active ingredient applied, along with the trade name (e.g. carbaryl/SEVIN 80 S), the rate of chemical and the units measured (e.g. lbs active ingredient {ai} per acre or pints {pts} product per acre), the approximate date (at minimum season and year) the pesticide/fertilizer was applied and the crop growing on the plot.

V				
Active Ingredient	TRADE NAME	RATE (units)	Date or season applied	CROP
	The grower	Indicated	that they	only treat
	The Com	post with	that they Armor (cyro dat casing.	mazine) at
	SP	awning an	dat casing.	For this
		trial ne	w compost v	sed in 2014
V		NO		of to botes
			for this tri	a /
			Dp 9-11-14	
SOURCE OF DATA	ea piois nave aijjereni nisior	ories are the same,	ne name of the treatment the enter "ALL".	hat this form covers.
	DATA ARE (Check one): T			OW
IF TEST SITE MISTOR	CI DATA ARE TRANSCR	CILCK A	TROTRIATE BIVE BEE	30 W
Planca	(Print name above of TAINED VERBALLY FRO document this communicate ANSCRIBED FROM WRITT DBY:	M GROWER (TH	is Field Data Book. BUT WERE NOT VERIF	ENOT VERIFIED)
COMPLETE IF APPROPR THE ORIGINAL IS IN IR-		COPY OF THE ORI		TE

ITF Room Cleaning Protocol

Page: 1 of 1

Revision Date: 5/6/2014

Revision Number# 1

Purpose: To Clean and sanitize ITF rooms prior to filling a new crop

1. Tray Treatment

- a. Spray trays and compost surface with 10% bleach solution at the end of the crop. (Saturday or Sunday)
- b. Keep trays in warm room 2-3 days to dry out
- c. Remove trays from room and take them to the "kill building" for post crop steam treatment (Tuesday)
- d. Remove compost from trays and pasteurize them in the farm's Phase II room (Thursday)
- e. Trays are used on spawning day (Friday)

2. Room treatment

- a. Wash emptry room with a mixed solution of Contrex brand detergent and Neutral Quat sanitizer (Tuesday)
- b. Allow surfaces to air dry with door closed.

Received as an email attachment on 6-24-14 of 6-24-14

> Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes



FIELD ID NO: _ Ennes

IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION:

F. TEST CROP RECORDS

1. ILSI CK	Of RECORDS				
CROP	mushroom (white	VA	ARIETY	Phoeniti Delta mill	e t
	TEST PLOT) DATE or AGE 6-20	/4 PL	ANT SPACING	Does not	apply
	ISHED CROP	Inc	dicate the distance	(with units) between th	e plants within the row
IF THE NU	MBER OF ROWS PER BED = 1	(OR IF BE	DS ARE NOT US	ED), THEN ENTER:	h:
ROW OR BE	Does	no T		ROWS PER PLOT	
Distance (wit	th units) between the centers of th	e crop row	Each treatment	t (Untreated, TRT 02, et	tc.) consists of one plot
	R OF ROWS/BED > 1, THEN El ust be 2 or more; otherwise enter		NUMBER OF Do not enter	CONTROL NAME AND CONTROL OF THE PARTY OF THE	
BED WIDTH	I		NUMBER OF	BEDS PER PLOT	
Distance (wit	th units) between the centers of th	e bed		t (Untreated, TRT 02, et	
TRT 01 (UN	TREATED) PLOT DIMENSION	S Growing	7.33f+	x 6.92 ft >	< 7-33 ft 6-19-14
TRT 02 (TRI	EATED) PLOT DIMENSIONS				pk 6-19-14
TRT 03 (TRI	EATED) PLOT DIMENSIONS	Growing Room	9.42ft	x 7. 67ft x	6.83 ft 6-19-14
Indicate the a	dimensions (with units) of each pl	ot (e.g. 6' x 5	50' or 2m x 15m)		
SOURCE OF	SEED/TRANSPLANTS	m	enterey	Mughroom	
DATE SEED	S/TRANSPLANTS RECEIVED	6	-20-14		
LOT NO. OF	SEED	No	t availa	6/0	
PLANTING	METHOD (Check One)	SEEDE	D_X_TRANSP		BLISHED CROP
TYPE OF PL	ANTER OR TRANSPLANTER	BY	hund	Spann mi Compost	ted into
IF THIS IS	A TREE FRUIT OR NUT TRIA	L:	NUMBER OF T	TREES PER PLOT	
IF THIS IS	A FRUIT, NUT, OR ARTICHOR	E TRIAL:		BUSH/TREE HEIGHT	
IS THIS IS	A GREENHOUSE TRIAL? (chec	ck one)	YES N	0 V-0/26	-19-14
Responses th	at do not fit above (e.g. Trt 04 plo	ot dimensions	s or differing numb	pers of rows per plot) m	ay be entered here:
				all a	
				12k 9-8-	14
			2 /		
ABOVE DAT	A ENTERED BY:	vid	Em	er_DA	TE: 6-20-14
	P	ART 5 PA	GE 11	Т	rial Year 2014
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FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION:	Done	prior	to	APP4	of 7-9-1	14
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G. CULTURAL PRACTICES LOG

INSTRUCTIONS: List all soil preparation and crop maintenance activities (e.g., cultivation, pruning) performed on test site from the harvest of the previous crop until the residue samples are collected. If no crop was grown on the test site, collect data for a period of one year prior to the first test substance application. Include the activity (operation), dates performed, source of information (e.g., farmer), equipment used, and if appropriate, the depth into soil which the practice was performed (e.g., roto-tiller mixed soil to 6 inches) and initials/date of the individual responsible for collecting information.

The mughroom were Cased— of a peat moss Sugar beet lime placed on top The top of the in depth	2 in s and e mikture of botes he botes	7-5-14		By hand with a scratching tool	ef 7-9-1
of a peat mos Sugar bect lime placed on top of The top of the were sety teheo	2 in s and e mikture of botes he botes		Direct		
of a peat moss. Sugar beet lime placed on top of The top of the were seta teheo	e mikture of botes he botes	1		By hand with a Scrutching tool	je je 7-9-1
The top of the were scratched	he botes	1		By hand with a scratching tool	ep 7-9-1
The top of the were scratched	he botes	1		By hand with a scrutching tool	ep 7-9-1
The top of the	he boxes	7-9-14		By hand with a Scrutching tool	eft 7-9-1
were seta tcheo	1-21n	1777	entry	Scratching tool	DIE 1-1-1
	8~1-279		V	SCratching Foot	1
In depth		V	V	↓ ↓	¥
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DATA WERE VERI	IFIED BY				
3.7	(Print nar			than transcriber and Quality Assu	
DATA WERE OBTA	AINED VERB.	ALLY FR	OM GROWER (THEREFORE, DATA WERE NO	OT VERIFIED)
				S, BUT WERE NOT VERIFIED)
ABOVE DATA ENTERED		con	O En	DAT	
	•	PART	5 PAGE 12		ial Year 2014

FIELD ID NO: Ennes
IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION:

H. MAINTENANCE FERTILIZERS AND PESTICIDES (INCLUDE ADJUVANTS)

INSTRUCTIONS: Enter all maintenance pesticide and fertilizer applications during the trial. Note the date the chemical was applied, the active ingredient applied, along with the trade name (e.g. carbaryl/SEVIN 80 S), the application rate of chemical and the units measured (i.e. lbs active ingredient per acre or pints product per acre), the purpose of the chemical (e.g., fertilizer, weeds, insects) and initials of the person responsible for direct supervision of the application with date of data entry. If two or more chemicals were tank mixed, list them together and bracket the tank mix on the form. If the crop was established from transplants, include all maintenance chemicals applied to the plants prior to transplanting. If treated seed was used, list treatment chemical (Date Applied would be "NA").

If a facility or grower's list of all maintenance chemical applications is inserted here, the applications to the plots in this trial must be notated in some way to distinguish them from applications made to other areas of the farm or research facility. DATE APPLIED TRADE NAME INITIALS/DATE Active Ingredient RATE (units) **PURPOSE** Promycel Gold (2) There were MAINTENANCE FERTILIZERS AND PESTICIDES DATA ARE (Check all that apply): ORIGINAL DATA TRUE COPY IF MAINTENANCE FERTILIZERS AND PESTICIDE DATA ARE TRANSCRIBED, check appropriate line below DATA WERE VERIFIED BY (Print name above of someone other than transcriber and Quality Assurance) DATA WERE OBTAINED VERBALLY FROM GROWER (THEREFORE, DATA WERE NOT VERIFIED)

Places document this communication in Part 3 of this Field Data Book. Please document this communication in Part 3 of this Field Data Book. DATA WERE TRANSCRIBED FROM WRITTEN RECORDS, BUT WERE NOT VERIFIED Provided 4-11-14 DATE: 9-11-14 ABOVE DATA ENTERED BY: Trial Year 2014 PART 5 PAGE 13 "THIS IS A TRUE COPY OF THE ORIGINAL" COMPLETE IF APPROPRIATE: THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. INITIALS DATE

PROMYCEL GOLD

0.5438

ITEM	LBS.	% protein	lbs. protein
RAF 20/80	1000	0.11 0.55	110
DP 70	100	0.55	1100 70
FORM OIL	63 92		
LECITHIN Feathmeal	1.5 <u>1400</u>	 <u>0.87</u>	 1218
Tot. Wt. Dry wt.	4656.5 4593.5		2498

Disinfectant Used at the ITF:

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Neutral Quat

Didecyl Dimethyl Ammonium Chloride
N-Alkyl (C14 50%, C12 40%, C16 10%)
Dimethyl benzyl ammonium chloride
Insert Ingredients

5.07%
3.38%
91.55%

TOTAL

eoke 6-24-14

Cyromazine (Armor) was not used in this crop.

Room Cleaning SOP:

Received as an email attachment on 6-24-14

OR 9-11-14



FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION:

I. CROP DESTRUCTION

INSTRUCTIONS: Describe how the remaining crop (after the completion of this field trial) has been destroyed or handled in such a way that it is not consumed as a human food or animal feed. Include the date(s) of destruction or handling activities. If the (leftover) treated crop was not destroyed because the pesticide use in this trial is registered in your state or territory or province, then that should be indicated here:

province, then that should be indicated here:
The remaining treated mushroom were harvested
by hand and placed into fragh disposal by
Monterey mushroom personnel. This is Commercial
practice to harvest all of the nature mughrooms
The remaining treated mushroom were harvested by hand and placed into trush disposal by Munterey mushroom personnel. This is Commercial practice to harvest all of the matere mughrooms at 1st break.
19/2 7-30-14 The remaining treated mush pooms and Compost in boxes was placed into trush dispusal
Compost in betes was placed into trush dispusal
on 7-30-14.
Op 9-11-14
SOURCE OF DATA: Direct thtry (Facility records, grower's records, etc.)
DATA WERE OBTAINED VERBALLY FROM GROWER: Please document this communication in Part 3 of this Field Data Book.
ABOVE DATA ENTERED BY: Covil Emer DATE: 7-20-14
PART 5 PAGE <u>15</u> Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

Application Part 6

FIELD ID NO: Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

A. EQUIPMENT								
INSTRUCTIONS: Complete a separate form for each piece of test substance application equipment used in the trial.								
EQUIPMENT USED FOR APPLICATION NUMBER(S) 1-6-0/k 9-8-14								
EQUIPMENT IDENTIFIER Cardinal Micron Master Fogger 1 Each test substance application equipment must have a unique identifying name or code								
APPLICATION EQUIPMENT TYPE (Check one) TRACTOR BACKPACK GRANULAR OTHER_X (Describe) + 6 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
PROPELLANT (Check one) CO2 COMPRESSED AIR PUMP OTHER_\(\sum \((Describe) \) C/C C + tric PumP								
TYPE OF APPLICATION (Check all that apply) 1) FOLIAR TO THE GROUND 2) BROADCAST BANDED DIRECTED IN-FURROW 3) OTHER X (Describe) Fogging NUMBER OF PASSES THAT ARE NEEDED TO TREAT THE PLOT Fogging of Grow room								
NUMBER OF NOZZLES OR HOPPER OUTLETS USED / nozz/e								
MESH SIZE USED IN THE STRAINERS Does not OR HOPPER OUTLETS OR HOPPER OUTLETS Does not OR HOPPER OUTLETS								
NOZZLE BRAND/TYPE/SIZE (e.g. T-JET 8004, even flat fan): Cardinal nozzle 45° a 49/e								
TREATED AREA 2 9. 42 ft x 7.67 ft x 6.83 ft = 493. 48 ft 3								
² Calculated width of nozzle discharge pattern (CWNDP) at proper boom height X length of plot sprayed or treated. For a broadcast application, CWNDP = (# of nozzles X nozzle spacing). For a banded application, CWNDP = # of nozzles X swath per nozzle. If application is foliar or soil directed enter row width X # of rows X length of plot sprayed or treated; treated row width may differ from actual row width when the actual row width is wider or narrower than local commercial practices. In this circumstance, the application rate should be calculated using a local commercial row width, and an explanation should be included on this page or inserted behind this page. Contact the Study Director if guidance is needed.								
DOES TREATED AREA = PLOT AREA (from Parts 5C and 5F)? YES NO								
IE NO DI EACE EVII AIN.								
IF NO, PLEASE EXPLAIN:								
ABOVE DATA ENTERED BY: Carel Emer DATE: 6-19-14								
PART 6 PAGE Trial Year 2014								
Total number of pages in this section at initial pagination:								
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NOINITIALSDATE								

FIELD ID NO: _

Ennes

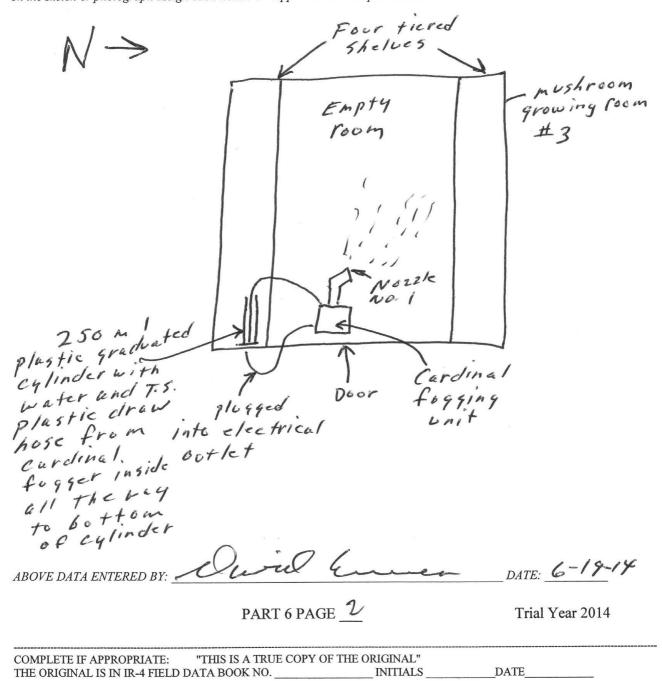
IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

B. DIAGRAM OF APPLICATION EQUIPMENT

EQUIPMENT USED FOR APPLICATION NUMBER(S)

INSTRUCTIONS: Complete a separate form for **each piece** of test substance application equipment used in the trial. Sketch a diagram and/or provide clear photograph of application equipment. Include the relative location and size of the target crop and the nozzle/hopper outlet placement and application pattern in relation to crop, in the sketch or photograph. In addition, on the sketch or photograph assign each nozzle or hopper outlet a unique number.



FIELD ID NO: _____ Ennes

IR-4 FIELD DATA BOOK

PART	6. API	PLICA	TION I	RECO	RDS				. 500						
C. DISC						ICATIO	ON NUM	MBER	1						
INSTRU calibrati	CTIONS on or ca	S: Comp alibratio	lete a co n-reched	ppy of th ck of app	is form olicatio	(PHOT) n equipr	OCOPY nent is r	IF NEC equired.	ESSAR					omplete	
EQUIPM															
DISCHA														_ (INITI	(ALS)
APPROX	XIMATI	E TIME	OF DA	Y THA	ГТНЕ	CALIBI	RATION	WAS I	PERFO	RMED_	11:0	9 A	m		
PRESSU															
DISCHA	RGE U	NITS M	IEASUR	ED (e.g	g. ml, 02	z., grams	(s) _ N	ons							- -
INSTRU										er) 0. 2		1 0.1			nents
BRIEFL	Y DESC	CRIBE F	ROCEL	OURE U	SED T	O CHE	CK DISC	CHARG	E CALI	BRATI	ON P	lace	12	01.5	-an1
wat	cr ,	nto	a	250	m	4140	luete	de	line	ler.	The	Nan	hos	e fro	m
nozzles/k	nis vaiu ioppers.	Entry i	prompts D wheth	have be er the re	en prov esults a	pproprie vided for re withir	3 disch 15% (if	i. Caicu arge cai applicai	libration	runs. (ow all c	Calculati Calculati	e sums ons.	and aver	an the ages of e	er Was erse q 11 pper.11q v.
RUN	TIME		Nozz	zle/hopp	er Outl	et Numb	er Alon	g Boom	(see eq	uipment	t diagran	n for no	zzle nun	nbers)	
	(sec)	1	2	3	4	5	6	7	8	9	10	11	Total	Output/ Nozzle	Output/ Second
1	167.0	4	/										167.01	16704	E
2						_									
3										DE	6-19-	14			
Total (<u>required</u>)	167.0	4										/			
Average (optional)															
CALCU	LAŢIO	VS:		,							1.			£	
Ø .	201	1.5	m l	01	ers	re ater	The C	K	tal	-14	310	me	o	~	
Was this If yes, w If this is the right An output amount o output re produce ABOVE	ere result a 3-disc of the s ut consist of test su esult of t a new, f	Its within harge can be second a second	n 5% of alibration and third an avera to use. eck is moration.	original n run, ar runs wi ge of the If this if ore than The orig	calibrate the av	ation or t verages (arget ou last colu	umn on		(Chec		YES ng the s ilibratic two mon eld data	prayer of must of the runs of book.	NO NO NO NO DILITARIO DI LI DI	h C-19-19 E 6-19-19 d If the ed to
ABOVE	DATA	LNIEK	LU D I :	10	D	ART 6	DACE	2					al Year		- '
									· · · · · · · · · · · · · · · · · · ·			111			
COMPLE	STE IF A	PPROPF	CHATE:	"THI	SISA	TRUE CO	JPY OF	THE OR	IGINAL						

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. _____ INITIALS _____ DATE__

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

SPEED CALIBRA	TION FOR	R APPLIC	ATION N	UMBER(S)	1_		
INSTRUCTIONS: Com application equipment			ı for additi	onal times wh	en a complete co	alibration or	calibration-recheck of
EQUIPMENT IDENTI	FIER						
	SPEED CALIBRATION DATE						(INITIALS)
TERRAIN OF CAMBI							
BRIEFLY DESCRIBE	PROCED	URE USE	D FOR SP	EED CALIBR	ATION		
	1 3	There	. 15	no 5	peed	ali bro	tion requir
	_	for	4hi	5 tri	a'/	····	
		10	R 6	-19-14			
setting used in the spee to determine speed (e.g test track (in feet or me	d calibrati s. speed of ters) by th is a reche	ion. Indica application e time need ck, calcula	ate the distorted to the distribution of the d	ance (in feet) on the tested for 10 or that length (It is within 5%	of the track on w 10 ft.). The spee in seconds). En 6 of the original	hich the app d is calculat stry prompts calibration.	e the gear setting and /or olication equipment was to ted by dividing the length have been provided for 2 Show all calculations. secheck is performed.
	- x =			Length of		CAI	CULATED SPEED
	RUN	GEAR	RPM	test track	TIME (sec)		(include units)
	1						
	2						
	3		×				
	Total of times (se			Average time (sec)		Average speed	
CALCULATIONS:							
			я				
WAS THIS A RECHE IF YES, WERE RESU The original calibratio	LTS WITE	HIN 5% OI	F ORIGIN.	AL CALIBRA	TION? (C)	neck one) Y neck one) Y	
NOTE: A target speed three runs in the speed WAS THIS A CHECK IF YES, WERE RESU ABOVE DATA ENTER	calibration OF A TA LTS WITI	is within : RGET SPI	5% of the t EED?	arget speed.	(CF	n of three runneck one) Yneck one) Y	
MOTE DATA ENTER	DD D1. <u>*</u>		PART 6	PAGE 4	-		Trial Year 2014
COMPLETE IF APPROI				COPY OF THE	ORIGINAL" INITIALS	D)ATE

FIELD ID NO: Ennes
IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

		/
E.	DELIVERY RATE CALIBRATION FOR APPLICATION NUMBER(S)	J

INSTRUCTIONS: Complete a separate form for each application, unless the same parameters are used-- you are using the same equipment, and have performed a recheck to confirm the result of the full calibration. Determine the rate of delivery from the application equipment. Briefly describe the procedure, including formulas used to determine delivery rate calibration. Show all calculations and units. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here. Computer-generated values (as opposed to those entered by the field cooperators) must be reviewed and clearly delineated by circling, initialing, and dating.

PROCEDURE/FORMULA:		
This f	orm is nut this trial 26-19-14	preeded
01	26-19-14	
CALCULATIONS:		
ABOVE DATA ENTERED BY:	? Enne	DATE: 6-19-14
PART 6 P.	AGE <u>5</u>	Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE CORTHE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO	Y OF THE ORIGINAL"INITIALS	DATE

FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION F	CECUKI	D2
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		1
F.	VOLUME, MIXING AND DILUTION CALCULATIONS FOR APPLICATION NUMBER(S)	ı

INSTRUCTIONS: Complete a separate form for each application, unless there are no changes in multiple applications. Show all calculations, formulas, and results below, define units of measure, and cite the initials of the person performing the calculations. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here. Computer-generated values (as opposed to those entered by the field cooperators) must be reviewed and clearly delineated by circling, initialing, and dating.

Growing room dimesions

9.42 ft (length) x 7.67ft (width) x 6.83 ft (Height) =

493.48 ft 3

Test substance rate 296m 1/10000 ft 3

296 m1 x 493.48 ft 3 = 14.6 m1

10000 ft 3

Dilution rate 10 02 product per gallon water

29.57 m1s/02 x 10 02 = 295.7 m 1

19 c1/0n = 3785 m1

14.6 m1 x 3785 m1 = 18 C.9 m15

295.7 m1

14.6 m1 T.5 + 186.9 m15 water = 201.5 m1

Total

DESCRIBE HOLDING AND TRANSPORT OF TEST SUBSTANCE FROM STORAGE AREA TO LOCATION OF TANK MIXING (E.g.: "Test substance held securely in an insulated cooler during transport to field site in the bed of a pickup truck" or "Tank mix prepared within walking distance of the chemical storage building")

The test subst	ince was tran	sported in a cooler
with blue lee 1	n the beck	of a pickup truck
from LCKARE	to Monterey	mushingen
No.	,	OR 6-19-14
above data entered by: \sqrt{c}	wiel Em	DATE: 6-19-14
	PART 6 PAGE 6	Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS	A TRUE COPY OF THE ORIGINA	AL"

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. ______INITIALS _____DATE______

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 FIELD ID NO: ____ Ennes

ID_4 EIELD DATA BOOK

	IR-4 FIELD DATA BOOK	
PART 6. APPLICATION RECO	RDS .	1 10 11
G. APPLICATION INFORMATION FOR	APPLICATION NUMBER l AP	PLICATION DATE 6-19-14
HAS THE APPLICATION EQUIPMENT B CALIBRATION/RECHECK WAS PERFOR	A STATE OF THE STA	eck one) YESNOX YES, then a recheck is needed.)
INSTRUCTIONS: Complete a separate form Treatment Number as indicated in the pro- chemical code number); the batch or lot num- the carrier and the approximate time the mix spraying the tank mix; the time of additional apply this treatment; the placement of the tes- of carrier, formulated product and other add units) of the nozzles above the canopy or gro- treatment(s) were incorporated, the method of protovator, irrigated, etc.), depth to which the substance into the soil; the time after treatments source (e.g. farm pond, city water), pH of the	tocol). Provide the name of the test substance; the approximature was applied to the plots, along with a agitation (if any); the unique name or a substance (e.g. broadcast, in-furrow, a tives in the mix; the measuring equipment (indicate which); the pressure in pound/or equipment used to incorporate the test substance was incorporated or the ant the incorporation activity was perfor	stance (common chemical name or ate time the test substance was mixed with a the initials of the person(s) mixing and code for the application equipment used to directed, knifed-in, banded); the amount ent with increments; the distance (include nunds per square inch at the boom; if we test substance mix (e.g. disked, amount of water used to move the test tened; and the carrier (normally water), it
		mber 03
NUMBER OF DAYS SINCE PREVIOUS APPLICATION TEST SUBSTANCE	N/A Evergreen erap profection 60-6	TIME OF ADDITIONAL AGITATION/INITIALS (if applicable) e.g. "10:00" or "continuous" or "just prior
BATCH/LOT NUMBER	AB 4586	to application"
TIME MIXED/INITIALS TIME APPLIED/INITIALS	11:32 Am Ofe 11:36 Am Sh Cardinal microsi	DR-6-19-14
EQUIPMENT IDENTIFIER	master fagger	
PLACEMENT OF TEST SUBSTANCE	Fogging of mushroom for	EQUIPMENT with INCREMENTS*
TANK MIX AMOUNTS	10/6/1	2
CARRIER (starting volume of water)	186.9m1	see following page
VOLUME of WATER REMOVED from starting volume (if applicable)	None	ex 6-19-14
TEST SUBSTANCE (formulated product)	14.6 ml	
ADJUVANT OR SURFACTANT	Nonc	
TOTAL VOLUME OF TANK MIX		mL grad. cylinder/10 ml Incr.
NOZZLE DISTANCE from TARGET	into air in room	ORDER IN WHICH ITEMS WERE ADDED TO SPRAY MIXTURE*
PSI AT BOOM	None	W=Water, TS=Test Substance, A=Adjuvant
INCORPORATION - Methodology and/or Equipment - DEPTH - TIME	OR 6-19-19	*e.g. 1-W, 2-TS, 3-A, 4-W /- W 2 - T. 5
CARRIER SOURCE/TYPE	well water	7-7.3
CARRIER pH/TEMPERATURE	7.0 68°F	
EQUIPMENT used to MEASURE pH	ph strip	
ABOVE DATA ENTERED BY:	ivel Enne	DATE: 6-19-14

PART 6 PAGE 7

Description of Equipment Used to Measure Liquid Test Substances, Adjuvant and Carrier Water

FIELD ID No	Pyrethrins+PBO/Mus ID No. 05954.14-C Ennes	shroom A52	Applicat	tion No	1				
The pipettes used to measure test substances or adjuvants are 5 ml, 10 ml and 25 ml (TD plastic pipettes. The 5 ml and 10 ml pipettes measure in 0.1 ml increments and the 25 ml pipette measures in 0.2 ml increments.									
The following pipettes were used in this study: Equipment used to remove volume of water:									
Test Substance 5 ml	Adjuvant 5 ml	-19-14		urfactant Use	ed				
10 ml	10 ml		T.S. I	Mixed Prior	to Surfactant				
χ 25 ml	25 ml		Surfa	ctant Mixed	Prior to T.S.				
The graduated cylinders used to measure test substance, adjuvant or carrier water are 50,100, 250, 500, 1000 and 4000 mls. The 50 and 100 ml cylinders measure in increments of 1 ml, 250 ml cylinder in 2 ml increments, 500 ml cylinder in 5 ml increments, 1000 ml cylinder in 10 ml increments and the 4000 ml cylinder in 50 ml increments. Carrier water for airblast sprays is measured with a Scienco flow meter which measures water out to hundredths (i.e. 1.00)									
Test Substance	Adjuvant 50 ml	Carrier V	Water 0 ml	X Si	EE 6-19.14 m / ette				
100 mH	100 ml	10	00 ml						
250 ml	250 ml	<u>X</u> 2:	50 ml						
500 ml	500 ml	50	00 ml						
1000 ml	1000 ml	10	000 ml	Part Page:	8				
4000 ml	4000 ml	40	000 ml						
Signature:	mil	S	cienco Flow		-19-14				

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

H. ADDITIONAL INFORMATION					
APPLICATION DATE 6-1	7-14 (Complete a sep	arate form for each ap	plication date	?)	
PLANT GROWTH & ENVIRON	MENTAL DATA AT THE TIME	E OF APPLICATION	Enter data	in this column	8 6/19
CROP HEIGHT (Measure or estin	1100	rup			
CROP GROWTH STAGE (e.g. se					
CROP VIGOR (e.g. poor, fair, god	od, variable)*			\bigvee	
PLANT SURFACE MOISTURE	DAMP	DRY	NA <u>X</u>		
ESTIMATED % OF SOIL AREA	n	Cwp			
MEASURED AIR TEMPERATUR	RE (Check F or C)		80.0	o _F X	°C
MEASURED WIND SPEED (Che	eck MPH or Km/Hr)		0	мрн 🔀 н	Km/Hr
WIND DIRECTION FROM (Check of	one) N NE E :	SE S SW	N	W or NO	WINDX
ESTIMATED % OF CLOUDS IN	THE SKY		Does	not a	ply
MEASURED RELATIVE HUMII	DITY%			38	9
DEW (heavy, light, none, etc.)			De	not	30h
DESCRIPTION OF SOIL TILTH	(smooth, firm, packed, cloddy, et	tc.)	1		"
ESTIMATE OF SOIL SURFACE	MOISTURE (wet, moist, dry, etc	c.)			
SOIL TEMPERATURE (Check F	or C)			°F	°C
DEPTH OF MEASUREMENT OF	F SOIL TEMPERATURE (Chec	k INCHES or cm)	V	INCHES	cm
*IF CROP VIGOR IS POOR OR V	VARIABLE, EXPLAIN:				
			14		
		6-19-			
		DR 6-19-			
BRIEFLY DESCRIBE PROCEDU with water, in ringed with	JRE USED TO CLEAN APPLIC	CATION EQUIPMENT	The 1	Loggin	4
unit plastic.	line and fug	ger unit in	ere p	rinsed	
with water, 1	rinsed with s	cap and a	-ater,	then	
ringed with	water.				
		OR 6-19	-14		
	- A	CL	EANED BY_		_ (Initials)
ABOVE DATA ENTERED BY:	Owil En			6-19-	14
	PART 6 PAGE	ì	Tria	al Year 2014	4

FIELD ID NO: Ennes IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

		,
T	PASS TIMES FOR APPLICATION NUMBER	
1.	TASS TIMES FOR ALL LICATION NUMBER	

APPLICATION DATE 6-19-14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)

RECORD PASS TIME AND PASS DIRECTION - Complete the table by providing the time required to make each pass of the

application equipment through the plot and direction of that pass (e.g. NE).

27	TREATM	ENT <u>0</u> 3	TREATMENT			
PASS NUMBER	© TIME	DIRECTION	PASS NUMBER	TIME	DIRECTION	
1	180.31 sec	Fogging of room	1			
2			2	DK 6-	19-14	
3	OR	6-19-14	3	\ '		
4			4			
5			5			
6			6			
7			7	\		
8			8			
9			9			
10			10			
11			11			
12			12			
TOTAL PASS TIME	180.31 sec					

O Time that the fegging unit was running cok 6-19-14 PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION

(E.g. "Test substance was applied to the treated test plot in two passes; one pass down each side of the row. Each pass was applied to the soil, in a 3 ft. band out from the tree, with the spray boom 24 inches above the soil.")

The test substance was applied to the empty
mushroom growing room as a fogging treatment
The fogging unit output profice was aimed upwards
towards the ceiling of the room at a 450 angle
At the time of the application the door to the
growing room was closed and the ventilation
system was shut off. The unit run past the
time for calibration to ensure that all liquid
in the cylinder had been dispersed.
OR 9-11-14 NARRATIVE ENTERED BY OR (Initials,
ABOVE DATA ENTERED BY: Scriel Europe DATE: 6-19-14

PART 6 PAGE 10

FIELD ID NO: ____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS
J. POST APPLICATION RATE CONFIRMATION FOR APPLICATION NUMBER
APPLICATION DATE 6-17-14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)
CALCULATION OF ACTUAL APPLICATION RATE - Using information such as total pass time, plot size, tank mix amounts, and discharge rate (average of 3 outputs) determine the actual amount of formulated test substance applied to treated plots. Even if a target rate was used for the pre-application calculations, the data from the calibration (average of 3 outputs) must be used for calculating the application rate. (If the protocol does not include a rate of formulated product, then the amount of active ingredient should be determined.) Convert this amount to the amount applied per acre (or hectare), and determine deviation from target application in the protocol, rounded to the nearest whole percent. Show all calculations and label all units. It is not sufficient to merely compare the actual pass times to the "practice" pass times. The example formulas listed at the bottom of 6J may be used to calculate the application rate. Calculations may be entered on a separate page placed after this one, if there is not enough space below.
EXAMPLE FORMULAS: The formulas below may be used to calculate the amount of test substance (TS) applied per acre as required in Part 6I. Other formulas may be used instead; however, it is not sufficient to merely compare the actual pass times to the "practice" pass times. 1) Total Pass Time x Discharge Rate/Nozzle x #Nozzles = Volume of Tank Mix applied to Plot
2) Volume of Tank Mix applied to Plot x Amount of TS in Tank Mix = Amount of TS applied to Plot Total Volume of Tank Mix
3) Amount of TS applied to Plot x <u>43,560 sq ft per acre</u> = Amount of TS applied per acre Plot area treated in sq ft

ACTUAL AREA TREATED (swath width or treated row or bed width $x \# of passes x length of plot): \cancel{\times} \cancel{C} \cdot \cancel{B} \cancel{S} \cdot \cancel{F} + $
The growing room was vented at 12:10 Pm Visually looked at the graduated exlinder
that Contained the T.S and water and observed
that all of the liquid in cylinder had
been dispersed through the fugging unit
14.6 ml T.5 × 10000 ft3 = 295.86 ml/10000ft
493.48 ft3
295.86 ml/10000 ft3 (Actual rate) x 100= 99.95 2
296 ml/10000 ft3 (Actual rate) x 100= 99.95 20 296 ml/10000 ft3 (protocol rate) of the get 090 deura tio
090 devia Ho
from target
WAS ACTUAL APPLICATION RATE WITHIN -5% TO +10% OF PROTOCOL RATE? (Check one) YES NO IF NO, Contact the Study Director immediately.
ABOVE DATA ENTERED BY: Davie Em DATE: 6-19-14

PART 6 PAGE 11

FIELD ID NO: _

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS	9	
K. POST TREATMENT RECORDS FOR APPLICATION NUMAPPLICATION DATE 6-19-14 (Complete a sep Was There Any Visible Phytotoxicity Damage? (Check one) YE If YES, then contact the Study Director. If a digital camera is Director along with a detailed explanation of the damage. A w	IBER /	wrong date
APPLICATION DATE (Complete a sep	parate form for each applicati	on date)
Was There Any Visible Phytotoxicity Damage? (Check one) YE	available email digital phot	(Initials/date)
Director along with a detailed explanation of the damage. A w	ritten description should als	so be entered below:
	; A	
		^
OR 7.	28-14	
РНҮТОТОХІ	CITY DESCRIBED BY:	(Initials/date)
DATE CITARY DIRECTOR WAS CONTACTED.	CONTACTED BY	Asiai stationas
DATE STUDY DIRECTOR WAS CONTACTED:Enter the requested information below for <u>both</u> the first rainfall and	CONTACTED BY:	(Initials/date)
subsequent applications were made prior to the first rainfall or irrig	gation. The rainfall/irrigation	data entered below should be
transcribed from the data included in Part 9 unless otherwise indica		
to incorporate the test substance, or if the test substance is app below. "NONE BEFORE HARVEST" OR "NONE BEFORE		
DATE-OF FIRST RAIN (Note the date of first rainfall after this ap		Inches, it it is a little and it.
		DAYS
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED (Check DAYS or HOURS) (Enter #hours if first rainfall was on the		HOURS
	Does no	4 . 00(4
AMOUNT OF WATER (Check INCHES or mm)	0	4.7.18.14
		mm_
RAIN INFORMATION RECORDED BY (Initials/date)		
TYPE OF IRRIGATION (e.g. overhead, trickle, flood)	water hose	
DATE OF FIRST IRRIGATION (Note the date of first irrigation of	after this application.)	7-6-14
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED	TO FIRST IRRIGATION	17 DAYS X
(Check DAYS or HOURS) (Enter #hours if first irrigation was on a	the date of application.)	HOURS
		Not INCHES
AMOUNT OF WATER (Check INCHES, mm, or mL)		me as used mm_
(Check IIVCILES, min, or mil)		mL
IRRIGATION INFORMATION RECORDED BY (Initials/date)	OK 9-11	-14
If the data entered above differ from the rainfall/irrigation data inc	luded in Part 9 explain:	
in the data entered above differ from the farmany irrigation data me		
NR		
PART 6 PAGE 1	Initials/date: 2	Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL IS IN FIELD DATA BOOK NO	IE ORIGINAL" INITIALSDAT	E

FIELD ID NO:

Ennes

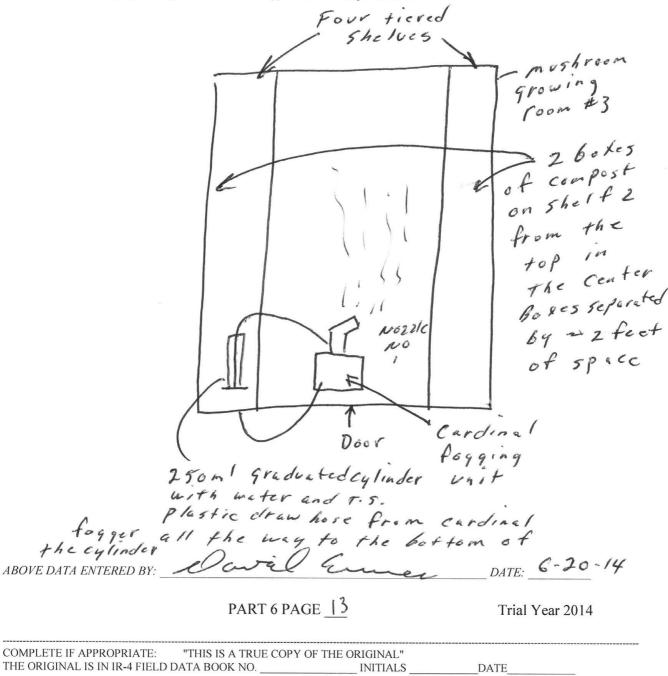
IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

B. DIAGRAM OF APPLICATION EQUIPMENT

EQUIPMENT USED FOR APPLICATION NUMBER(S) 2

INSTRUCTIONS: Complete a separate form for each piece of test substance application equipment used in the trial. Sketch a diagram and/or provide clear photograph of application equipment. Include the relative location and size of the target crop and the nozzle/hopper outlet placement and application pattern in relation to crop, in the sketch or photograph. In addition, on the sketch or photograph assign each nozzle or hopper outlet a unique number.



FIELD ID NO: _

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

C. DISC	CHARG	E CALI	BRATIO	ON FOR	RAPPL	ICATIO	ON NU	MBER	2						
INSTRU calibrati	CTIONS on or co	S: Comp alibratio	olete a co on-reche	opy of th ck of ap	is form plicatio	(PHOT) n equipi	OCOPY ment is r	IF NEC	CESSAR I.	(Y) for a	dditiona	al times	when a c	complete	
EQUIPN	MENT II	DENTII	FIER												
EQUIPMENT IDENTIFIERPERFORMED BY						(INITIALS)									
APPRO	XIMAT	TIME	OF DA	Y THA	T THE	CALIBI	RATION	N WAS	PERFO	RMED_					
PRESSU	IRE OR	OTNE	R STAN	DARD	SETTIN	NG UTII	LIZED I	N CAL	IBRAT	ION					
DISCHA	RGE U	NITS N	NEASUI	RED (e.g	g. ml, oz	., grams	s)			37					
INSTRU	MENT	USED '	го мел	ASURE	WATE	R (e.g. 1	00 ml g	raduate	d cylina	ler)					
BRIEFL	Y DESC	CRIBE I	PROCE	MIDEL	ICED T	O CHE	OV DIO	CILABO	TE CAL	rnn i mi	031			9-14 19p2	
				-	50	Me	Cal	cul	1. fla	n e	116.5	$\frac{20}{1}$	6-1	1000	7
Record t	his valu <i>oppers</i> .	ein " Rl <i>Entry j</i>	JN" Row Prompts Dwheth	N 1 unde have be er the re	er the appear the appear the appear the appear the appear to the appear the appear to the appear th	proprio ided for e within	is allow ite outle 3 disch i 5% (if	ea 10 al t. Calcu arge ca applica	scnarge late the libration ble). Sk	total and runs. Conversion to the conversion of	ct outpu d avera Calculat calculati	t from e ge disci e sums ions.	ach nozz harge for and aver	tle or hop r all the rages of e	oper.
RUN	TIME		Noz	zle/hopp	er Outle	et Numb	er Alon	g Boon	(see eq	uipmen	diagra	n for no	zzle nur	nbers)	
Ron	(sec)	1	2	3	4	5	6	7	8	9	10	11	Total	Output/ Nozzle	Output/ Second
1															
2															
3															
Total required)															
Average optional)															
CALCUI	LATION	IS:							•			\			
Was this If yes, we If this is a the right) An output amount of output re broduce of	ere result a 3-discless of the set consist of test sult of the set new, for the part of the test and the test sult of the test substitute that the test substitute the test s	ts within harge can be cond a distance the reche full calib	n 5% of alibration and third in avera to use. eck is moration.	original run, ar runs wi ge of thi If this i ore than The orig	calibrate the average runs sa rech sold cal	tion or ta erages (of the f or a tar erent the ibration	arget our last coluirst run? rget output er run) the an the output data, our parties of the column than the output data, our parties of the column than the output data, our parties of the column than the co	out may pen the r riginal r a true		(Check (Check I when c of the or ion resu nust be i	cone) cone cone cone cone cone cone cone cone	YES ng the s alibration two mon eld data DA	prayer of on must l re runs d book.	-20-1	-
COMPLE THE ORI							PY OF T		IGINAL' NITIAL]	DATE			

FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION	RECORDS
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F. VOLUME, MIXING AND DILUTION CALCULATIONS FOR **APPLICATION NUMBER(S)** 2

INSTRUCTIONS: Complete a separate form for each application, unless there are no changes in multiple applications. Show all calculations, formulas, and results below, define units of measure, and cite the initials of the person performing the calculations. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here. Computer-generated values (as opposed to those entered by the field cooperators) must be reviewed and clearly delineated by circling, initialing, and dating.

Refur to part GF clated 6-19-14
Same Calculations used for
application 2
10/26-20-14

DESCRIBE HOLDING AND TRANSPORT OF TEST SUBSTANCE FROM STORAGE AREA TO LOCATION OF TANK MIXING (E.g.: "Test substance held securely in an insulated cooler during transport to field site in the bed of a pickup truck" or "Tank mix prepared within walking distance of the chemical storage building")

Refer to Part GF dated 6-19-14 5 an	ne method
Refer to Part GF dated 6-19-14 5 and Used. T.S. Stored overnight in Coo	ler with
blue ice	
OK	6-20-14
ABOVE DATA ENTERED BY: David Lung	DATE: 6-20-14
PART 6 PAGE 15	Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. INITIALS	DATE

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECO	RDS	2		1 2
G. APPLICATION RECO	APPLICATION NUMI	BER \angle APP	LICATION DATE_	6-20-14
HAS THE APPLICATION EQUIPMENT B CALIBRATION/RECHECK WAS PERFOR	SEEN USED SINCE THE	ELAST (Chec	ck one) YES ES, then a recheck is	NO
INSTRUCTIONS: Complete a separate for Treatment Number as indicated in the prochemical code number); the batch or lot num the carrier and the approximate time the mix spraying the tank mix; the time of additional apply this treatment; the placement of the test of carrier, formulated product and other additional units) of the nozzles above the canopy or growth treatment(s) were incorporated, the method of rotovator, irrigated, etc.), depth to which the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil; the time after treatment the substance into the soil the substance the substance the substance the substanc	otocol). Provide the name ther of the test substance sture was applied to the p al agitation (if any); the u st substance (e.g. broadce litives in the mix; the med bund (indicate which); the and/or equipment used to the test substance was incoment the incorporation act	of the test substantial the approximate lots, along with a nique name or coust, in-furrow, discuring equipments pressure in pour incorporate the activity was performate with the activity was performate the activity was performate approximate the activity was performate the activity was performate approximate the activity was performate the activity was performanted the activity was performated the activity was performated the activity was performanted the acti	ance (common cheme time the test substate the initials of the per ode for the application rected, knifed-in, band with increments; the nds per square inchetest substance mix (emount of water used and the carrier (ical name or nce was mixed with rson(s) mixing and on equipment used to nded); the amount he distance (include at the boom; if to move the test normally water), is
source (e.g. farm pond, city water), pH of the	carrier and its temperal			are the carrier pH.
		TRT Num	·	
NUMBER OF DAYS SINCE PREVIOUS APPLICATION	/		TIME OF A AGITATION (if appl	/INITIALS
TEST SUBSTANCE		-6 -6	e.g. "10 " continuous" o): 00" or
BATCH/LOT NUMBER	AB 4586		to appli	cation"
TIME MIXED/INITIALS	8:53 AM	ok	24	
TIME APPLIED/INITIALS	8:5.9 Am	DR.	10 K	6.20-14
EQUIPMENT IDENTIFIER	master Fog	ger		
PLACEMENT OF TEST SUBSTANCE	Fogging of musi			
TANK MIX AMOUNTS		MEASURING E	QUIPMENT with IN	ICREMENTS*
CARRIER (starting volume of water)	186.9m1		sec follow	ing Page
VOLUME of WATER REMOVED from starting volume (if applicable)	None		sec follow NR 6	-20-14
TEST SUBSTANCE	14-6 m1			
(formulated product) ADJUVANT OR SURFACTANT				
	None			
TOTAL VOLUME OF TANK MIX	201.5ml		mL grad. cylinde	
NOZZLE DISTANCE from TARGET	the air in	00 m	ORDER IN WHICH ADDED TO SPRAY	MIXTURE*
PSI AT BOOM	None		W=Water, TS=Te A=Adjuvant	st Substance,
INCORPORATION	NOW.	c 0 - (1/	*e.g. 1-W, 2-T	S, 3-A, 4-W
- Methodology and/or Equipment - DEPTH	Ch	C-20-14	1-w	
- TIME			1-W	
CARRIER SOURCE/TYPE	monterey m well wate	r	2/13	
CARRIER pH/TEMPERATURE	7.0	60°F		
EQUIPMENT used to MEASURE pH	Ph strip			
ABOVE DATA ENTERED BY: Nur	al En	us	DATE: 	-20-14

PART 6 PAGE 16

Trial Year 2014

Description of Equipment Used to Measure Liquid Test Substances, Adjuvant and Carrier Water

Pyrethrins+PBO/Mushroom

FIELD ID No	ID No. 05954.14-CA Ennes	A52 Appl	lication No	2			
The pipettes used to measure test substances or adjuvants are 5 ml, 10 ml and 25 ml (TD) plastic pipettes. The 5 ml and 10 ml pipettes measure in 0.1 ml increments and the 25 ml pipette measures in 0.2 ml increments.							
The following pipe	ettes were used in thi	volume	nent used to ree of water:	move			
Test Substance 5 ml	Adjuvant 5 ml	-20-14 XN	Jo Surfactant U	Jsed			
10 ml	10 ml	T	S. Mixed Prio	or to Surfactant			
25 ml	25 ml	S	urfactant Mix	ed Prior to T.S.			
The graduated cylinders used to measure test substance, adjuvant or carrier water are 50,100, 250, 500, 1000 and 4000 mls. The 50 and 100 ml cylinders measure in increments of 1 ml, 250 ml cylinder in 2 ml increments, 500 ml cylinder in 5 ml increments, 1000 ml cylinder in 10 ml increments and the 4000 ml cylinder in 50 ml increments. Carrier water for airblast sprays is measured with a Scienco flow meter which measures water out to hundredths (i.e. 1.00)							
The following cylin	nders or flow meter	were used in this st	tudy:				
Test Substance 50 ml	Adjuvant 50 ml	Carrier Water 50 ml	× 10	pette			
100 ml	100 ml 2K C-20-14 250 ml	100 ml					
500 ml	500 ml	500 ml					
1000 ml	1000 ml	1000 ml	Pag Pag	art 6			
4000 ml	4000 ml	4000 ml					
^	^ -	Scienco	Flow meter				
Signature:	and En	ner	Date:	6-20-14			

FIELD ID NO: _

Ennes IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

H. ADDITIONAL INFORM	ATION FROM APPLIC	CATION NUMBER	2
APPLICATION DATE 6-	20-14 (00	omplete a separate for	m for each application date)

APPLICATION DATE 6-20-14 (Complete a separat	te form for each app	lication date)	
PLANT GROWTH & ENVIRONMENTAL DATA AT THE TIME OF	FAPPLICATION	Enter data in this column	
CROP HEIGHT (Measure or estimate crop height, include units of mea	in 4 boxes on	n gost	
CROP GROWTH STAGE (e.g. seed, vegetative, bud, bloom, fruiting,		•	
CROP VIGOR (e.g. poor, fair, good, variable)*		1	
PLANT SURFACE MOISTURE (Check one) S.	ATURATED	DAMP DRY	NA X
ESTIMATED % OF SOIL AREA COVERED BY CROP CANOPY		NO Crop	
MEASURED AIR TEMPERATURE (Check F or C)		65.8 °FX	о _С
MEASURED WIND SPEED (Check MPH or Km/Hr)		О мрн_Х к	m/Hr
WIND DIRECTION FROM (Check one) N_ NE_ E_ SE_	S SW	W NW or NO V	VIND_X
ESTIMATED % OF CLOUDS IN THE SKY		Does not ap	ply
MEASURED RELATIVE HUMIDITY%		72	
DEW (heavy, light, none, etc.)		Wone	
DESCRIPTION OF SOIL TILTH (smooth, firm, packed, cloddy, etc.)		Compost loose in	betes
ESTIMATE OF SOIL SURFACE MOISTURE (wet, moist, dry, etc.)		moist-co	
SOIL TEMPERATURE (Check F or C)	Compost temperature	66 °FX	о _С
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check IN	(CHES or cm)	4 inches X	cm
*IF CROP VIGOR IS POOR OR VARIABLE, EXPLAIN:			
		14	
	K 6-10		
19	10		
			~
			 0
		E 11 1:	1
BRIEFLY DESCRIBE PROCEDURE USED TO CLEAN APPLICATI	ION EQUIPMENT	To llowed to	ne
Same procedure for chaning as	on Part	6 H dated 6.	19-14
	- 14		
10 k 6-20	0-19		
Ne			
		WEDDY OR	ZF * *
ABOVE DATA ENTERED BY: Davil Em	CLE	DATE: 6-20-	
ADOVE DATA ENTERED BY:	es	DATE: 6-70-	- /

PART 6 PAGE <u>18</u>



FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

I. PASS TIMES FOR APPLICATION NUMBER 2

APPLICATION DATE 6 - 20-14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)

RECORD PASS TIME AND PASS DIRECTION - Complete the table by providing the time required to make each pass of the

application equipment th		ction of that pass (e.				
	TREATM	MENT <u>03</u>	TREATMENT			
PASS NUMBER	⊘ TIME	DIRECTION	PASS NUMBER	TIME	DIRECTION	
1	210.31 Sec	Fogging 6f room	1			
2			2			
3			3			
4			4			
5			5	D/2 6-20-1	4	
6		e-20-14	6			
7		6-20-14	7			
8			8			
9			9			
10			10	1		
11			11			
12			12			
TOTAL PASS TIME	210.315€€					

O Time that the fogging unit was running Ok 6-20-19 PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION

(E.g. "Test substance was applied to the treated test plot in two passes; one pass down each side of the row. Each pass was applied to the soil, in a 3 ft. band out from the tree, with the spray boom 24 inches above the soil.")

The test substance was applied to the compost (5 days after 60xes- 4 60xes 39 16 mushroom growing room es a fogging treatment. fogging unit profice was pointed upward towards the 45 cangle. room at application tor Callbration tor NARRATIVE ENTERED BY Placed buck into DATE: 6-20-14 ABOVE DATA ENTERED BY: growing room #3. PART 6 PAGE 19 Trial Year 2014

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

MEMO to the FILE

TETOL	Time	Strtee	8:15 Am
	ine	End	8: 30 BM
Placed into growing	room	#13 -	- 8: 80 Am .OK.
Placed into growing		5	EG OF 6-20-14
BOX 1-39.00 BOX 2-39.00 1 BOX 3-39.00 1 BOX 4-39.00 1	165		6-20-14
30/2-39.00	65		
Box 3 - 3900 /	h5		
Box 4- 39.00 1	<u> </u>		pp 9-11-14
	tanim tanin manananananananananananananananananana		J. P. A.
OInto each box		a dded	11 02
of mushroom sp			
of supplement.	The of	2040 01	od supolement
are mixed into th	e lom i	pust 6	a hund
A150 add 0.56	901	A locas	ter to
the compost is	14 6-	-26-14	oniminante esta esta esta esta esta esta esta es
1) This is done	bes Mo	a teren	m. chrose
OThis is done to	- 20-1	9	10/03/11/08/4
personnel e/2 6		<i></i>	DR 9-11-17
The dimexnsions of treatments are 21 18 in in ht. D	L d	- /	for bett
treation to an old			5 100 0011
18 in in ht D	/n /E	977	10 In WIATH X
	2 6-2	20-17	OB 9-11-14
	ii		
PART	1/1 P	PAGE 20	
ABOVE DATA ENTERED BY 1	Wes -		DATE: 6/20/14
			Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO.	COPY OF THE (ORIGINAL" INITIALS	DATE

Pyrethrins+PBO/Mushroom FIELD ID NO: ID No. 05954.14-CA52 Ennes

IR-4 FIELD DATA BOOK

MEMO to the FILE

TRT03 Filling of boxes	5
Time started 10115 Am	
Time encled 10129 Am	
Time into growing room	
Box 1 39-00 165	
2 39.00 165	
3 39-00 165	
4 39-00 165	19/2 9-11-14
See mixing procedure for	r compost
on previous page. Same	procedure
on previous page. Same used for the treated 6	oxes
	OR 9-11-14
The compost and spawn are	mited on a
Stainless steel tuble. The +	able is cleaned
with Neutral ovat between	botes
op 9-11-	14
@ See page following part 511 PART 6 PAGE	for Neutral Quat composition E 21 OR 9-11-14
ABOVE DATA ENTERED BY: Cover Com	DATE: 6-20-19
· · · · · · · · · · · · · · · · · · ·	Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO	GINAL"DATE

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

J. POST APPLICATION	RATE CONFIRMATI	ON FOR APPLICATION NUMBER 2
APPLICATION DATE	6-20-14	(COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE,

CALCULATION OF ACTUAL APPLICATION RATE - Using information such as total pass time, plot size, tank mix amounts, and discharge rate (average of 3 outputs) determine the actual amount of formulated test substance applied to treated plots. Even if a target rate was used for the pre-application calculations, the data from the calibration (average of 3 outputs) must be used for calculating the application rate. (If the protocol does not include a rate of formulated product, then the amount of active ingredient should be determined.) Convert this amount to the amount applied per acre (or hectare), and determine deviation from target application in the protocol, rounded to the nearest whole percent. Show all calculations and label all units. It is not sufficient to merely compare the actual pass times to the "practice" pass times. The example formulas listed at the bottom of 6J may be used to calculate the application rate. Calculations may be entered on a separate page placed after this one, if there is not enough space below.

EXAMPLE FORMULAS: The formulas below may be used to calculate the amount of test substance (TS) applied per acre as required in Part 6I. Other formulas may be used instead; however, it is not sufficient to merely compare the actual pass times to the "practice" pass times.

- 1) Total Pass Time x Discharge Rate/Nozzle x #Nozzles = Volume of Tank Mix applied to Plot
- 2) Volume of Tank Mix applied to Plot x <u>Amount of TS in Tank Mix</u> = Amount of TS applied to Plot Total Volume of Tank Mix

3) Amount of TS applied to Plot x $\underline{43,560 \text{ sq ft per acre}}$ = Amount of TS applied per acre Plot area treated in sq ft

DISCHARGE RATE (ml/sec or g/sec): 267.04 FEC 9.41 FEC 9.4

Trial Year 2014

PART 6 PAGE 22

FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS						
K. POST TREATMENT RECORDS FOR APPLICATION NU	MBER 2					
APPLICATION DATE 6-76-14 (Complete a separate form for each application date)						
If YES, then contact the Study Director. If a digital camera is	Was There Any Visible Phytotoxicity Damage? (Check one) YES NO Off_ 7-20-4 (Initials/date) If YES, then contact the Study Director. If a digital camera is available, email digital photograph(s) to the Study Director along with a detailed explanation of the damage. A written description should also be entered below:					
PR 7-2	8-14					
РНҮТОТОХ	ICITY DESCRIBED BY: _	(Initials/date)				
DATE STUDY DIRECTOR WAS CONTACTED: CONTACTED BY: (Initials/deue). Enter the requested information below for both the first rainfall and first irrigation after each application, regardless of whether subsequent applications were made prior to the first rainfall or irrigation. The rainfall/irrigation data entered below should be transcribed from the data included in Part 9 unless otherwise indicated on this page. If irrigation is required by the protocol to incorporate the test substance, or if the test substance is applied by irrigation, then that event should be recorded below. "NONE BEFORE HARVEST" OR "NONE BEFORE SAMPLING" MAY BE ENTERED, IF APPLICABLE.						
DATE OF FIRST RAIN (Note the date of first rainfall after this a	pplication.)					
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED (Check DAYS or HOURS) (Enter #hours if first rainfall was on the	O TO FIRST RAINFALL e date of application.)	DAYS HOURS				
AMOUNT OF WATER (Check INCHES or mm)	Does no	t apply inches				
RAIN INFORMATION RECORDED BY (Initials/date)						
TYPE OF IRRIGATION (e.g. overhead, trickle, flood)	voter hose	by hand				
DATE OF FIRST IRRIGATION (Note the date of first irrigation	after this application.)	7-6-14				
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED (Check DAYS or HOURS) (Enter #hours if first irrigation was on		16 DAYS X HOURS_				
AMOUNT OF WATER (Check INCHES, mm, or mL)		measured mm_ mL_				
IRRIGATION INFORMATION RECORDED BY (Initials/date)	10/k 9-11	-14				
If the data entered above differ from the rainfall/irrigation data inc	luded in Part 9, explain:	Of 9-11-14				
	Initials/date:					
PART 6 PAGE 2		Trial Year 2014				
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL IS IN FIELD DATA BOOK NO	IE ORIGINAL" INITIALSDATI	3				

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

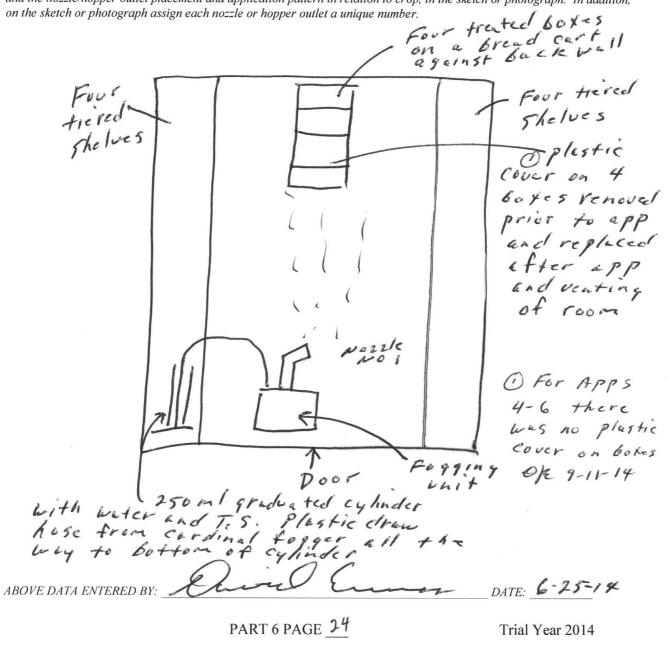
COMPLETE IF APPROPRIATE:

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO.

B. DIAGRAM OF APPLICATION EQUIPMENT

EQUIPMENT USED FOR APPLICATION NUMBER(S) 3-6-68 9-8-14

INSTRUCTIONS: Complete a separate form for each piece of test substance application equipment used in the trial. Sketch a diagram and/or provide clear photograph of application equipment. Include the relative location and size of the target crop and the nozzle/hopper outlet placement and application pattern in relation to crop, in the sketch or photograph. In addition, on the sketch or photograph assign each nozzle or hopper outlet a unique number.



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_ INITIALS _

DATE

FIELD ID NO: _ Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

C. DISC	CHARG	E CALI	BRATI	ON FOR	RAPPL	ICATIO	ON NU	MBER	3						
INSTRU calibrati	CTIONS on or co	S: Comp alibratio	olete a co on-reche	opy of th ck of ap	nis form plicatio	(PHOT) n equipi	OCOP) ment is	Y IF NEC required	ESSAR	Y) for a	dditiona	al times	when a c	complete	
EQUIPN	MENT II	DENTII	FIER												
DISCHA	RGEC	ALIBR	ATION	DATE_					PERFO	ORMED	BY			(INITI	ALS)
APPRO	XIMAT	ETIME	OF DA	Y THA	T THE	CALIBI	RATIO	N WAS	PERFO	RMED_					
PRESSU	IRE OR	OTHE	R STAN	DARD	SETTIN	NG UTII	LIZED	IN CAL	IBRAT	ION					
DISCHA	RGE U	NITS M	1EASUI	RED (e.g	g. <i>ml</i> , oz	., grams	s)								
INSTRU	MENT	USED '	то Мъ	SURE	WATE	R (e.g. 1	00 ml g	graduate	d cylina	der))				
BRIEFL	Y DESC	CRIBE	PROCEI	OUREL	JSED T	О СНЕС	CK DIS	CHARG	E CAL	IBRATI	ON				
DISCHA				/	Rel	Fer	to	Part	+ 6	c d	lut c	de	5-19-	-14.	The
					15	ane	Co	leu.	la ti	0n5	wer	e v;	sed -	for A	773
DISCHA	RGE C	ALIBR	ATION	Record	time app	olicator	is allow	ved to di.	scharge	. Collec	ct outpu	t from e	ach nozz	le or hop	per.
Record t	oppers.	Entry	prompts	have be	en prov	ided for	3 disch	harge cai	libration	n runs. (Calcular	te sums	narge foi and avei	r all the rages of e	each
nozzle/ho	opper oi	ıtlet AN	D wheth	er the re	esults ar	e withir	5% (if	applicat	ble). Sk	ow all c	alculati	ions.			
RUN	TIME		Noz	zle/hopp	er Outle	et Numb	er Alon	ng Boom	(see eq	uipment	t diagrai	m for no	zzle nun	nbers)	
	(sec)	1	2	3	4	5	6	7	8	9	10	11	Total	Output/ Nozzle	Output/ Second
1															
2									/						
3															
Total (<u>required</u>)															
Average (optional)															
CALCUI	LATION	NS:										/			
												`			
Was this	a reched	ck of dis	scharge (ralibrati	on or a f	arget ou	itnut?			(Chac)	k one)	VES	,	NO	
If yes, we	ere resul	ts within	n 5% of	original	calibrat	tion or t	arget ou			2.0	k one)			NO	
If this is the right)	of the s	econd a	nd third	rune wi	thin 50%	of the f	irct run	9		(Check	one)	VFS	i)	NO	
An outpu amount o output re produce	t consist	ting of a bstance	in avera	ge of thi	ree runs s a rech	or a tan	rget out e run) t	tput may hen the r	be used	when c	alculati	ing the s	prayer o	output and	d If the
output re produce	sult of the	he reche ull calib	eck is mo ration.	ore than The orig	5% diff inal cal	erent the	an the o	original or or a true	calibrat copy. n	ion resu just be i	It, then n this fi	two moi eld data	re runs a	ire neede	d to
ABOVE					tu	il	16			1_	<i>J</i>			-25-	
					PA	RT 6 I	PAGE	25				Tri	al Year	2014	
COMPLE								THE ORI							
THE ORI	JINAL I	o in ik-	4 FIELD	DATAI	SOOK N	O		1	NITIAL	2		DATE_			

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

f. volume, mixing and dilution calculations for application number(s) $\underline{3}$

INSTRUCTIONS: Complete a separate form for each application, unless there are no changes in multiple applications. Show all calculations, formulas, and results below, define units of measure, and cite the initials of the person performing the calculations. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here. Computer-generated values (as opposed to those entered by the field cooperators) must be reviewed and clearly delineated by circling, initialing, and dating.

Refer to part 6 F Nated 6-19-14
The same Calculations were used for application 3

who 6-25-14

DESCRIBE HOLDING AND TRANSPORT OF TEST SUBSTANCE FROM STORAGE AREA TO LOCATION OF TANK MIXING (E.g.: "Test substance held securely in an insulated cooler during transport to field site in the bed of a pickup truck" or "Tank mix prepared within walking distance of the chemical storage building")

Tank mix prepared within warking distance of the chemical storage building	
The test substance was transport	ted in cooler
with blue ice in the buck of a	PICKLA
truck on 6-24-14 from UCKARE to CA	vuis , CA and
Stored overnight in garage on 6-25-14 as above from clovis, CA to monterey.	
as above from clovis, CA to monterey.	mighroom.
ABOVE DATA ENTERED BY: Davied Company	DATE: 6-25-14
PART 6 PAGE 14	Trial Year 2014

COMPLETE IF APPROPRIATE:	"THIS IS A TRUE COPY O	F THE ORIGINAL"		
THE ORIGINAL IS IN IR-4 FIELD	DATA BOOK NO	INITIALS	DATE	

FIELD ID NO: $_$

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECO		3		c 25-16
G. APPLICATION INFORMATION FOR	APPLICATION NUMI	BER AP	PLICATION DATE	6-75-14
HAS THE APPLICATION EQUIPMENT B CALIBRATION/RECHECK WAS PERFOR		E LAST (Ch	eck one) YESYES, then a recheck i	NO
INSTRUCTIONS: Complete a separate form	n for each application d			053
Treatment Number as indicated in the pro	otocol). Provide the name	of the test sub	stance (common cher	nical name or
chemical code number); the batch or lot num				
the carrier and the approximate time the mix				
spraying the tank mix; the time of additional apply this treatment; the placement of the test				
of carrier, formulated product and other add				
units) of the nozzles above the canopy or gro				
treatment(s) were incorporated, the method of				
rotovator, irrigated, etc.), depth to which the				
substance into the soil; the time after treatme source (e.g. farm pond, city water), pH of the				
source (e.g. jarm pona, city water), pH of the	carrier and its temperal			sure the carrier pH.
		IRI Nu	mber 03	
NUMBER OF DAYS SINCE	5-			ADDITIONAL N/INITIALS
PREVIOUS APPLICATION	Evergreen Ci	E 2	(if app	olicable)
TEST SUBSTANCE	Protection 6		e.g. "1	10:00" or or "just prior
BATCH/LOT NUMBER	AB 45 8	C	t o appl	ication"
TIME MIXED/INITIALS	7:47 AM	DE		0 14
TIME APPLIED/INITIALS	7:52 AM	· ek	D)	26-25-14
EQUIPMENT IDENTIFIER	master tog	ger		
PLACEMENT OF TEST SUBSTANCE	Fogging of mus	hroom foo	ભ	
TANK MIX AMOUNTS		MEASURING	EQUIPMENT with 1	INCREMENTS*
CARRIER (starting volume of water)	186.9m1		See foilow Ok 6	ing page
VOLUME of WATER REMOVED	None		Ph. C.	-25-14
from starting volume (if applicable) TEST SUBSTANCE	,000		ORG	
(formulated product)	14.6 14			
ADJUVANT OR SURFACTANT	None	~~~~		
TOTAL VOLUME OF TANK MIX	2015m1	*e.g. 1000	mL grad. cylind	der/10 ml iner.
NOZZLE DISTANCE from TARGET	14 to will in	room	ADDED TO SPRA	Y MIXTURE*
PSI AT BOOM	None		W=Water, TS=T A=Adjuvant	est Substance,
INCORPORATION			*e.g. 1-W, 2-	TS, 3-A, 4-W
- Methodology and/or Equipment	Oh	6-25-14		
- DEPTH - TIME			1- W	1
		1 ughtaor	1-W	5
CARRIER SOURCE/TYPE	well wate	6	7-1.	
CARRIER pH/TEMPERATURE	7-0	TOF	4	
EQUIPMENT used to MEASURE pH	ph Strip			
ABOVE DATA ENTERED BY:	well En		DATE:	6-25-14

PART 6 PAGE <u>27</u>

Description of Equipment Used to Measure Liquid Test Substances, **Adjuvant and Carrier Water**

Pyrethrins+PBO/Mushroom

EVEL D ID M	ID No. 05954.14-CA5		NI	3
FIELD ID No	Ennes	Аррп	cation No	
The pipettes used to plastic pipettes. The pipette measures in	o measure test substa e 5 ml and 10 ml pipe 0.2 ml increments.	nces or adjuvants a ettes measure in 0.1	re 5 ml, 10 m ml incremen	l and 25 ml (TD) ts and the 25 ml
The following piper	tes were used in this	volume	ent used to renof water:	
Test Substance 5 ml	Adjuvant 5 ml		Surfactant U	
10 ml	\(\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	T.	S. Mixed Prio	or to Surfactant
	25 ml	Su	ırfactant Mixe	ed Prior to T.S.
50,100, 250, 500, 1 increments of 1 ml, increments, 1000 m increments. Carrier which measures wa	nders used to measure 000 and 4000 mls. T 250 ml cylinder in 2 al cylinder in 10 ml in water for airblast sp ter out to hundredths	the 50 and 100 ml c 2 ml increments, 50 increments and the 4 rays is measured w is (i.e. 1.00)	cylinders meas 0 ml cylinder 4000 ml cylin ith a Scienco	sure in in 5 ml der in 50 ml
Test Substance 50 ml	Adjuvant50 ml	Carrier Water 50 ml	× /	ipette
100 ml	100 ml	100 ml	,	/
250 ml	250 ml			
500 ml	500 ml	500 ml	P	art (
1000 ml	1000 ml	1000 ml	Pag	6 : 2 0
4000 ml	4000 ml	4000 ml		
	0 0	Scienco F	low meter	
Signature:	Sweet &	mer	Date:	6-25-14

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. Al	PPLICATION	RECORDS
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H. ADDITIONAL INFORMATION FROM APP	lication number 3
APPLICATION DATE 6-25-14	(Complete a separate form for each application date)

PLANT GROWTH & ENVIRONMENTAL DATA AT THE TIME	Enter data in this column						
CROP HEIGHT (Measure or estimate crop height, include units of n	0 111						
CROP GROWTH STAGE (e.g. seed, vegetative, bud, bloom, fruiting	Spaun run						
CROP VIGOR (e.g. poor, fair, good, variable)*		mushrouns Zisible					
PLANT SURFACE MOISTURE (Check one)	SATURATED	DAMP DRY NA_X					
ESTIMATED % OF SOIL AREA COVERED BY CROP CANOPY		0					
MEASURED AIR TEMPERATURE (Check F or C)		69.4 °F_X °C_					
MEASURED WIND SPEED (Check MPH or Km/Hr)		Ø MPH <u></u> Km/Hr_					
WIND DIRECTION FROM (Check one) N_ NE_ E_ SI	E S SW	W NW or NO WIND_X					
ESTIMATED % OF CLOUDS IN THE SKY		Does not apply					
MEASURED RELATIVE HUMIDITY%		6.8					
DEW (heavy, light, none, etc.)	compost						
DESCRIPTION OF SOIL TILTH (smooth, firm, packed, cloddy, etc.		Smooth, pucked					
ESTIMATE OF SOIL SURFACE MOISTURE (wet, moist, dry, etc.,		moist					
SOIL TEMPERATURE (Check F or C)	compost	& Z °F_X °C_					
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check	INCHES or cm)	4 INCHES X cm_					
*IF CROP VIGOR IS POOR OR VARIABLE, EXPLAIN:							
	6-25-14						
- Ok	6						
		Tile 1+6					
BRIEFLY DESCRIBE PROCEDURE USED TO CLEAN APPLICA	ATION EQUIPMENT	1 de tod 6-10-14					
Same procedure for Chening as	on 1-11 6 1	- Carca 6171					
	25-14						
0/2 6-25-14							
		7					
	CL	EANED BY (Initials)					
ABOVE DATA ENTERED BY: Power En		DATE: 6-25-14					

PART 6 PAGE 29

FIELD ID NO: Ennes IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

TOTAL PASS TIME

I. PASS TIMES FOR APPLICATION NUMBER 3

APPLICATION DATE 6-25-14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)

RECORD PASS TIME AND PASS DIRECTION - Complete the table by providing the time required to make each pass of the

application equipment thro			g. <i>NE</i>).	1	7 3
	TREATM	_{IENT} <u>03</u>	Т	TREATMENT	
PASS NUMBER	© TIME	DIRECTION	PASS NUMBER	TIME	DIRECTION
1	210.28 Sec	of room	1		
2			2		
3			3		
4			4	DK	6-25-14
5			5	\.	
6		Ope	6		
7		6-25-14	7		
8			8		
9			9		
10			10		
11			11		
12			12	363	
					1

O Time that the fogging unit was running of 6-25-14 PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION

(E.g. "Test substance was applied to the treated test plot in two passes; one pass down each side of the row. Each pass was applied to the soil, in a 3 ft. band out from the tree, with the spray boom 24 inches above the soil.")

The test substance was applied to the treated mush room botes during the first 7 days of the spawn run. The fogging unit orofice was pointed expect towards the Ceiling of the room et a 45° angle. At the time of the application the door to the growing room was closed and the ventilation system was shot off. The unit was ran past the time required for Calibration to ensure that all of the T.S. Solution was clispersed. Ities to the application the plastic Covering botes was removed and replaced after venting of the NARRATIVE ENTERED BY Of (Initials)

PART 6 PAGE 30

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

J. POST APPLICATION RATE CONFIRMATION	ON FOR APPLICATION NUMBER 3
APPLICATION DATE 6-25-14	(COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)

CALCULATION OF ACTUAL APPLICATION RATE - Using information such as total pass time, plot size, tank mix amounts, and discharge rate (average of 3 outputs) determine the actual amount of formulated test substance applied to treated plots. Even if a target rate was used for the pre-application calculations, the data from the calibration (average of 3 outputs) must be used for calculating the application rate. (If the protocol does not include a rate of formulated product, then the amount of active ingredient should be determined.) Convert this amount to the amount applied per acre (or hectare), and determine deviation from target application in the protocol, rounded to the nearest whole percent. Show all calculations and label all units. It is not sufficient to merely compare the actual pass times to the "practice" pass times. The example formulas listed at the bottom of 6J may be used to calculate the application rate. Calculations may be entered on a separate page placed after this one, if there is not enough space below.

EXAMPLE FORMULAS: The formulas below may be used to calculate the amount of test substance (TS) applied per acre as required in Part 6I. Other formulas may be used instead; however, it is not sufficient to merely compare the actual pass times to the "practice" pass times.

- 1) Total Pass Time x Discharge Rate/Nozzle x #Nozzles = Volume of Tank Mix applied to Plot
- 2) Volume of Tank Mix applied to Plot x <u>Amount of TS in Tank Mix</u> = Amount of TS applied to Plot Total Volume of Tank Mix
- 3) Amount of TS applied to Plot x 43,560 sq ft per acre

 Plot area treated in sq ft

The growing room was vented at 8:40 Am

Visually looked at the graduated cylinder

that held the T.S. solution and observed

that all of the solution had be en

dispersed by the Cardinal fugger

14.6 ml T.S × 10000 ft3 = 245.86 ml/10000 ft3

493.48 ft3

295.86 ml/10000 ft3 (Actualrate) x 100 = 99.85 90

296 ml/10000 ft3 (protocolrate) of target rate

090 deviation

from target

WAS ACTUAL APPLICATION	RATE WITHIN -5% TO +1	0% OF PROTOCOL RATE?	
(Check one) YES_	NO	IF NO, Contact the Study	Director immediately
ABOVE DATA ENTERED BY:	Dewil	Ennex	DATE: 6-25-14
	PART 6 PAG	E 31	Trial Year 2014

Pyrethrins+PBO/Mushroom FIELD ID NO: _ ID No. 05954.14-CA52

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS		
K. POST TREATMENT RECORDS FOR APPLICATION NU	MBER 3	
APPLICATION DATE 6-25-14 (Complete a se	narate form for each applica	tion date)
Was There Any Visible Phytotoxicity Damage? (Check one) Y If YES, then contact the Study Director. If a digital camera is Director along with a detailed explanation of the damage. A v	ESNO	tograph(s) to the Study
	DR7-28-14	
РНҮТОТОХ	ICITY DESCRIBED BY:	(Initials/date)
DATE STUDY DIRECTOR WAS CONTACTED: Enter the requested information below for both the first rainfall an subsequent applications were made prior to the first rainfall or irritranscribed from the data included in Part 9 unless otherwise indicto incorporate the test substance, or if the test substance is appliedow. "NONE BEFORE HARVEST" OR "NONE BEFORE	gation. The rainfall/irrigation atted on this page. If irrigation being by irrigation, then that	data entered below should be on is required by the protocol t event should be recorded
DATE OF FIRST RAIN (Note the date of first rainfall after this a		
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSEI (Check DAYS or HOURS) (Enter #hours if first rainfall was on the	DAYS HOURS	
AMOUNT OF WATER (Check INCHES or mm)	Does no	+ apply inches_
		ER 7-28-14 mm_
RAIN INFORMATION RECORDED BY (Initials/date)		
TYPE OF IRRIGATION (e.g. overhead, trickle, flood)	water hose	by hund
DATE OF FIRST IRRIGATION (Note the date of first irrigation	after this application.)	7-6-14
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED (Check DAYS or HOURS) (Enter #hours if first irrigation was on		// days χ hours _
AMOUNT OF WATER (Check INCHES, mm, or mL)		measured mm_ mL_
IRRIGATION INFORMATION RECORDED BY (Initials/date)	OK 9-11-	14
If the data entered above differ from the rainfall/irrigation data inc	eluded in Part 9, explain:	7
	Initials/date:	
PART 6 PAGE 3	2	Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL IS IN FIELD DATA BOOK NO	IE ORIGINAL" DATI	E

FIELD ID NO: _

PART 6. APPLICATION RECORDS

Ennes

IR-4 FIELD DATA BOOK

C. DISC	CHARG	E CALI	BRATIO	ON FOR	RAPPL	ICATIO	ON NU	MBER	4						
INSTRU calibrati										(Y) for ac	dditiona	l times	when a c	complete	
EQUIPN	MENT II	DENTI	FIER												
														(INITI	'ALS)
PRESSU	IRE OR	OTHE	STAN	DARD	SETTIN	IG UTII	LIZED	IN CAL	IBRAT	ION			-		
BRIEFL	Y DESC	CRIBE I	PROCEI	DURE (JSED T	O CHE	CK DIS	CHARC	E CAL	IBRATI	ON	,	10	16	111
					Ne	7-67	70	161	- +	6.0	du	tec	10	-19-1 - AP)	7
Record t	his valu noppers.	ein " Rl <i>Entry</i> J	JN" Rov prompts	v 1 und have be	time ap) er the ap en prov	licator proprid ided for	is allow ate outle 3 disch	ved to di et. Calcu harge ca	scharge late the libration	e. Collec total an n runs. (ct outpui id avera Calculat	t from e ge disch e sums	ach nozz harge fo	le or hop	pper.
RUN	TIME		Noz	zle/hopp	oer Outle	et Numb	oer Alor	ng Boom	(see eq	quipment	t diagrar	n for no	zzle nur	mbers)	
KON	(sec)	1	2	3	4	5	6	7	8	9	10	11	Total	Output/ Nozzle	Output
1															
2															
3															
Total (<u>required</u>)															
Average (optional)															
CALCU		NS:								1		-			
Was this If yes, w If this is the right? An output amount of output re produce	ere result a 3-disc of the s at consist of test su esult of t a new, f	Its withi harge casecond a ting of a bstance he rechall calib	n 5% of alibration and third an average to use. beck is mobration.	origina n run, an runs w ge of th If this ore than The orig	l calibrate the av	tion or t erages (arget ou last col	umn on	be usec results c calibra copy, n	(Checi	k one)	YES YES ng the salibration two modeled data	sprayer on on must re runs o v book.	NO NO NO output an be used. are neede	
					PA	RT 6	PAGE	33				Tri	al Yea	r 2014	
COMPLE THE ORI							OPY OF	THE OR	IGINAL INITIAL			DATE_			

FIELD ID NO: _

IR-4 FIELD DATA BOOK

f. volume, mixing and dilution calculations for **Application Number(s)** $\underline{\mathcal{L}}$

INSTRUCTIONS: Complete a separate form for each application, unless there are no changes in multiple applications. Show all calculations, formulas, and results below, define units of measure, and cite the initials of the person performing the calculations. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here. Computer-generated values (as opposed to those entered by the field cooperators) must be reviewed and clearly delineated by circling, initialing, and dating.

Refer to Part 6 F dated 6-19-14
The same Calculations were used
for application 4

DK 7-9-14

DESCRIBE HOLDING AND TRANSPORT OF TEST SUBSTANCE FROM STORAGE AREA TO LOCATION OF TANK MIXING (E.g.: "Test substance held securely in an insulated cooler during transport to field site in the bed of a pickup truck" or "Tank mix prepared within walking distance of the chemical storage building")

The fest 5 ubstance was transported in a cooler with blue ice in the back of a pickup truck on 7-814 from Uck ARE to Clouis, ch and stored overnight in a garage. On 7-9-14 transported as above from clouis, ch to monterey mushroom.

ABOVE DATA ENTERED BY: Occurred Entered DATE: 7-9-14

PART 6 PAGE 34

Trial Year 2014

COMPLETE IF APPROPRIATE:	"THIS IS A TRUE COPY OF THE	E ORIGINAL"	
THE ORIGINAL IS IN IR-4 FIELD D	ATA BOOK NO	INITIALS	DATE

FIELD ID NO: _

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECO		Ц	7-9-14
G. APPLICATION INFORMATION FOR	APPLICATION NUME		LICATION DATE 7-9-14
HAS THE APPLICATION EQUIPMENT B CALIBRATION/RECHECK WAS PERFOR		Discussion accompanies to the contraction of the co	ek one) YES NO ES, then a recheck is needed.)
INSTRUCTIONS: Complete a separate for Treatment Number as indicated in the prochemical code number); the batch or lot num the carrier and the approximate time the mix	tocol). Provide the name aber of the test substance, ture was applied to the p	of the test substa the approximate lots, along with t	ance (common chemical name or time the test substance was mixed with the initials of the person(s) mixing and
spraying the tank mix; the time of additional apply this treatment; the placement of the test of carrier, formulated product and other additional units) of the nozzles above the canopy or grotreatment(s) were incorporated, the method corotovator, irrigated, etc.), depth to which the	it substance (e.g. broadce litives in the mix; the med und (indicate which); the and/or equipment used to	ast, in-furrow, din asuring equipment of pressure in pout incorporate the	rected, knifed-in, banded); the amount at with increments; the distance (include ands per square inch at the boom; if test substance mix (e.g. disked,
substance into the soil; the time after treatme	ent the incorporation acti	vity was perform	ed; and the carrier (normally water), its
source (e.g. farm pond, city water), pH of the	carrier and its temperat		
		TRT Num	
NUMBER OF DAYS SINCE PREVIOUS APPLICATION	Evergreen C.	e 11 13	TIME OF ADDITIONAL AGITATION/INITIALS (if applicable)
TEST SUBSTANCE	Protection 60	-6	e.g. "10:00" or "continuous" or "just prior
BATCH/LOT NUMBER	AB 4580	0	to application"
TIME MIXED/INITIALS	8:16 Am	OR	0/27-9-14
TIME APPLIED/INITIALS	8:20-Am	DR	20/01
EQUIPMENT IDENTIFIER	muster fog	921	
PLACEMENT OF TEST SUBSTANCE	Fogging of mus	2	
TANK MIX AMOUNTS		MEASURING E	QUIPMENT with INCREMENTS*
CARRIER (starting volume of water)	186.9ml		ce following Page
VOLUME of WATER REMOVED from starting volume (if applicable)	None		OK 7-9-14
TEST SUBSTANCE	14.6 ml		
(formulated product) ADJUVANT OR SURFACTANT	Nont		
	4	4 1000	mL grad. cylinder/10 ml incr.
TOTAL VOLUME OF TANK MIX	2015 MI		ORDER IN WHICH ITEMS WERE
NOZZLE DISTANCE from TARGET	air in room	70	ADDED TO SPRAY MIXTURE*
PSI AT BOOM	None		W=Water, TS=Test Substance, A=Adjuvant
INCORPORATION - Methodology and/or Equipment - DEPTH - TIME	OK	7-9-14	1- W 2- T. 5.
CARRIER SOURCE/TYPE	mentercy mu well buter		2-T.5.
CARRIER pH/TEMPERATURE	7.0	50°F	
EQUIPMENT used to MEASURE pH	Ph strip		*
ABOVE DATA ENTERED BY:	vil Em	Les	DATE: 7-9-14

PART 6 PAGE <u>35</u>

Description of Equipment Used to Measure Liquid Test Substances, Adjuvant and Carrier Water

FIELD ID No	Pyrethrins+PBO/Mu ID No. 05954.14-0 Ennes	CA52	cation No	4
plastic pipettes. The	to measure test subs ne 5 ml and 10 ml pi n 0.2 ml increments.	tances or adjuvants a pettes measure in 0.1	re 5 ml, 10 m ml incremen	l and 25 ml (TD) ts and the 25 ml
	ettes were used in th		ent used to renot water:	move
Test Substance 5 ml	Adjuvant 5 ml		Surfactant U	sed
10 ml	10 m		S. Mixed Prior	r to Surfactant
χ 25 ml	25 m	1 Su	rfactant Mixe	d Prior to T.S.
50,100, 250, 500, increments of 1 ml increments, 1000 r increments. Carrie which measures was	1000 and 4000 mls., 250 ml cylinder in nl cylinder in 10 ml r water for airblast sater out to hundredth	The 50 and 100 ml cy 2 ml increments, 500 increments and the 4 prays is measured wins (i.e. 1.00)	ylinders meas 0 ml cylinder 000 ml cylind th a Scienco f	ure in in 5 ml ler in 50 ml
Test Substance 50 ml	Adjuvant 50 ml	Carrier Water 50 ml		pette
180 ml	100 ml	100 ml	13.	pette
250 ml	250 ml	_X 250 ml		
500 ml	500 ml	500 ml	D	Co
1000 ml	1000 ml	1000 ml	Pag	e: 36
4000 ml	4000 ml	4000 ml		
S:) - 0 0	Scienco Flo		7 - 9 - 4/
Signature:	and E		Date: 7	7-9-14

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

H. ADDITIONAL INFORMATION FROM APPLICATION NUMBER APPLICATION DATE 7-9-14 (Complete a separate form for each app	olication date)
PLANT GROWTH & ENVIRONMENTAL DATA AT THE TIME OF APPLICATION	Enter data in this c
CROP HEIGHT (Measure or estimate crop height, include units of measurements)	mush rook

PLANT GROWTH & ENVIRONMENT	PLANT GROWTH & ENVIRONMENTAL DATA AT THE TIME OF APPLICATION Enter data in this column						
CROP HEIGHT (Measure or estimate ca	mush nut em	rooms	have yet				
CROP GROWTH STAGE (e.g. seed, ve	getative, bud, bloom, fruiting	g, #true leaves)	During 5 day	the f	sing		
CROP VIGOR (e.g. poor, fair, good, val	riable)*		Crop	net vi	5.610		
PLANT SURFACE MOISTURE (Chec	k one)	SATURATED	DAMP_	DRY	NA_X		
ESTIMATED % OF SOIL AREA COV	ERED BY CROP CANOPY			0			
MEASURED AIR TEMPERATURE (C	heck F or C)		71.6	o _{F_} X	°C		
MEASURED WIND SPEED (Check Mi	PH or Km/Hr)		0	MPHX	Km/Hr		
WIND DIRECTION FROM (Check one)	N NE E SI	E S SW	W N	W or NO	WIND X		
ESTIMATED % OF CLOUDS IN THE	SKY		Docs	not a	noly		
MEASURED RELATIVE HUMIDITY9	6		É	31			
DEW (heavy, light, none, etc.)		Compost	1.	1941			
DESCRIPTION OF SOIL TILTH (smooth	th, firm, packed, cloddy, etc		5 moo	th, pa	cked		
ESTIMATE OF SOIL SURFACE MOIS	TURE (wet, moist, dry, etc.,	Compost	mo	15 F			
SOIL TEMPERATURE (Check F or C) 76 °FX °C_							
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check INCHES or cm) 4 INCHES Cm_							
*IF CROP VIGOR IS POOR OR VARIA	ABLE, EXPLAIN:		,				
		14					
	Dt 7-9-						
	EIL	72					
			611				
BRIEFLY DESCRIBE PROCEDURE U							
Same procedure for cleaning as on Port 6H dated 6-19-14							
	OR 7-9-	14			- 10 M		
		CLE	EANED BY	DE	(Initials)		
ABOVE DATA ENTERED BY:	will an			7- 1			
		•					

PART 6 PAGE 37

FIELD ID NO: _____Ennes IR-4 FIELD DATA BOOK

PART 6	APPLIC	'ATION	RECORDS	

I. PASS TIMES FOR APPLICATION NUMBER 4

APPLICATION DATE 7-7-14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)

RECORD PASS TIME AND PASS DIRECTION - Complete the table by providing the time required to make each pass of the application equipment through the plot and direction of that pass (e.g. NE).

application equipment inrough the plot and direction of that pass (e.g. N.E.).							
	TREATM	IENT <u>0</u> 3	TREATMENT				
PASS NUMBER	O TIME	DIRECTION	PASS NUMBER	TIME	DIRECTION		
1	210.31 Sec	of room	1				
2			2	Dk 7	-9-14		
3			3	\			
4			4				
5			5				
6		eope	6				
7		7-9-14	7				
8			8				
9			9				
10			10				
11			11				
12			12				
TOTAL PASS TIME	210.31 Se	C		, , , , , , , , , , , , , , , , , , , ,			

O Time that the fugging unit was running of 7-9-14
PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION

(E.g. "Test substance was applied to the treated test plot in two passes; one pass down each side of the row. Each pass was applied to the soil, in a 3 ft. band out from the tree, with the spray boom 24 inches above the soil.")

The test substance was applied to the treated mushrown boxes 4 days after the boxes were cased. The fogging unit orofice was pointed upward towards the ceiling of the room at a 45° angle. At the time of the application the door to the growing room was clusted and the ventilation system was shut off. The fogging unit was van past the time required for calibration to ensure that all of the T-S. Solution was dispersed. The top of the boxes are no longer covered with plastic.

NARRATIVE ENTERED BY as I (Initials)

ABOVE DATA ENTERED BY: David Ener DATE: 7-9-14

PART 6 PAGE 38

FIELD ID NO: _

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS
J. POST APPLICATION RATE CONFIRMATION FOR APPLICATION NUMBER
APPLICATION DATE 7-9-14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)
CALCULATION OF ACTUAL APPLICATION RATE - Using information such as total pass time, plot size, tank mix amounts, and discharge rate (average of 3 outputs) determine the actual amount of formulated test substance applied to treated plots. Even if a target rate was used for the pre-application calculations, the data from the calibration (average of 3 outputs) must be used for calculating the application rate. (If the protocol does not include a rate of formulated product, then the amount of active ingredient should be determined.) Convert this amount to the amount applied per acre (or hectare), and determine deviation from target application in the protocol, rounded to the nearest whole percent. Show all calculations and label all units. It is not sufficient to merely compare the actual pass times to the "practice" pass times. The example formulas listed at the bottom of 6J may be used to calculate the application rate. Calculations may be entered on a separate page placed after this one, if there is not enough space below.
EXAMPLE FORMULAS: The formulas below may be used to calculate the amount of test substance (TS) applied per acre as required in Part 6I. Other formulas may be used instead; however, it is not sufficient to merely compare the actual pass times to the "practice" pass times. 1) Total Pass Time x Discharge Rate/Nozzle x #Nozzles = Volume of Tank Mix applied to Plot
2) Volume of Tank Mix applied to Plot x Amount of TS in Tank Mix = Amount of TS applied to Plot
Total Volume of Tank Mix
3) Amount of TS applied to Plot x 43.560 sq ft per acre Plot area treated in sq ft

DISCHARGE RATE (ml/sec or g/sec): 167.04 Fee
ACTUAL AREA TREATED (swath width or treated row or bed width x # of passes x length of plot): 6.83 f4 = 493.48 ft
The grawing room was vented at 9:00 Am Visually looked at the graduated Cylinder
that held the T.S. Solution and observed
that all of the solution had been
dispersed by the Cardinal fugger.
14.6 ml T.5. x 10000ft3 = 295.86 ml/1000efts
295. e6 ml/10000 ft3 (Actualrate) x 100= 99.95 90 296 ml/10000 ft3 (Protocal) of terretrate 090 deviation from target
WAS ACTUAL APPLICATION RATE WITHIN -5% TO +10% OF PROTOCOL RATE? (Check one) YES NO

PART 6 PAGE <u>39</u>

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS					
K. POST TREATMENT RECORDS FOR APPLICATION NU	mber <u>4</u>				
APPLICATION DATE 7-9-14 (Complete a separate form for each application date)					
Was There Any Visible Phytotoxicity Damage? (Check one) Y If YES, then contact the Study Director. If a digital camera is Director along with a detailed explanation of the damage. A w	available, email digital pho				
	pr 7-28-14				
РНҮТОТОХ	ICITY DESCRIBED BY: _	(Initials/date)			
DATE STUDY DIRECTOR WAS CONTACTED: CONTACTED BY: (Initials/date) Enter the requested information below for both the first rainfall and first irrigation after each application, regardless of whether subsequent applications were made prior to the first rainfall or irrigation. The rainfall/irrigation data entered below should be transcribed from the data included in Part 9 unless otherwise indicated on this page. If irrigation is required by the protocol to incorporate the test substance, or if the test substance is applied by irrigation, then that event should be recorded below. "NONE BEFORE HARVEST" OR "NONE BEFORE SAMPLING" MAY BE ENTERED, IF APPLICABLE.					
DATE OF FIRST RAIN (Note the date of first rainfall after this a					
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED TO FIRST RAINFALL (Check DAYS or HOURS) (Enter #hours if first rainfall was on the date of application.) HOURS					
AMOUNT OF WATER (Check INCHES or mm)	Does	nct apply INCHES_			
RAIN INFORMATION RECORDED BY (Initials/date)	er.				
TYPE OF IRRIGATION (e.g. overhead, trickle, flood)	water pose	by hand			
DATE OF FIRST IRRIGATION (Note the date of first irrigation	after this application.)	7-9-14			
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED (Check DAYS or HOURS) (Enter #hours if first irrigation was on		KHOUN HOURS_			
AMOUNT OF WATER (Check INCHES, mm, or mL) AMOUNT OF WATER (Check INCHES, mm, or mL)					
IRRIGATION INFORMATION RECORDED BY (Initials/date)	eh 9-11-	14			
If the data entered above differ from the rainfall/irrigation data inc	luded in Part 9, explain:				
SLL	Initials/date:				
PART 6 PAGE _		Trial Year 2014			
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE	IE ORIGINAL"				

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

Ç. DISC	HARGI	E CALI	BRATIC	ON FOR	APPL	ICATIO	ON NU	MBER_	5						
INSTRUC calibrati										Y) for ac	lditiona	l times	when a c	omplete	
EQUIPM	IÈNT II	DENTIF	IER												
DISCHA	RGE	ALIBRA	ATION	DATE_					PERFC	RMED	BY			_ (INITI	ALS)
APPROX	KIMATI	ENME	OF DA	Y THA	T THE	CALIB	RATIO	N WAS I	PERFO	RMED_					
PRESSU															
DISCHA	RGE U	NITS M	IEASUF	RED (e.g	g. ml, oz	., grams	s)								
INSTRU															
BRIEFL	Y DESC	CRIBE F	PROCEI	DURE L	JSED TO	C CHEC	CK DIS	CHARG	E CALI	BRATI	ON_	//	- 10	16/ /	2
					Rei	rer	70	1 ar	t 6	6	D	0 6	-/9-	14.5	EME
DISCHA Record to nozzles/ho	his valu oppers.	e in " Ru <i>Entry p</i>	JN" Rov	Record v 1 unde have be	time ap) ar the ap en prov	dicator Oproprio ided for	is allov ite outle 3 disci	ved to dis et. Calcu harge cal	scharge late the libration	. Collec total an 1 runs. C	t outpu d avera Calculat	t from e ge discl te sums	ach nozz harge foi	tle or hop r all the	pper.
RUN	TIME		Noz	zle/hopp	er Outle	et Numb	er Aloi	ng Boom	(see eq	uipment	diagrai	m for no	zzle nun	nbers)	
KUN	(sec)	1	2	3	4	5	6	7	8	9	10	11	Total	Output/ Nozzle	Output/ Second
1															
2															
3															
Total (<u>required</u>)															
Average (optional)															
CALCUI	LATION	VS:										1			
Was this If yes, we If this is the right) An output amount coutput re produce ABOVE	ere result a 3-disc of the s of test su sult of t a new, f	Its within harge can be second a sting of a strance he rechelled a libertal calib	n 5% of alibration and third avera to use. eck is moration.	original n run, ar runs wi ge of the If this ore than The orig	calibra re the av ithin 5% ree runs is a reck is 5% diff ginal car	tion or t erages (of the t or a ta- neck (on ferent th libration	arget of last colfirst run rget ou le run) is an the grant data.	umn on? tput may then the i original or a true	be used results of calibrat copy, n	(Check (Check I when c of the ord ion resu ust be i	k one) k one) k one) alculati ginal c ilt, then n this fi	YES YES ing the salibration two models data	sprayer o on must o re runs o o book.	NO NO output and be used. are neede	d If the d to
	200					RT 6						Tri	al Year	2014	
COMPLE THE ORI								THE OR	IGINAL INITIAL			DATE_			

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6.	APPLIC	ATION	RECORDS
---------	--------	--------------	----------------

F. VOLUME, MIXING AND DILUTION CALCULATIONS FOR APPLICATION NUMBER(S)

INSTRUCTIONS: Complete a separate form for each application, unless there are no changes in multiple applications. Show all calculations, formulas, and results below, define units of measure, and cite the initials of the person performing the calculations. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here. Computer-generated values (as opposed to those entered by the field cooperators) must be reviewed and clearly delineated by circling, initialing, and dating.

Refer to Part 6 F dated 6-19-14
The Same calculations were used
for application 5

OK 7-20-14

DESCRIBE HOLDING AND TRANSPORT OF TEST SUBSTANCE FROM STORAGE AREA TO LOCATION OF TANK MIXING (E.g.: "Test substance held securely in an insulated cooler during transport to field site in the bed of a pickup truck" or "Tank mix prepared within walking distance of the chemical storage building")

or "Tank mix prepared within walking distance of the chemical storage building")

The 165t Substance was transforted in a Cooler with blue

[CC in the back of a pickup truck on 7-19-14 from Uchare

to Clovis, CA and Stored overnight in a garage, On 7-20-14 transported

as a Gove from clovis, cA to menterey mush pooms The TS is only

The container was stored back in garage in clovis, cA on 7-20-14

The container was transported as above on 7-21-14 from clovis, cA

to Chemical storage Data Entered By:

PART 6 PAGE 42

Trial Year 2014

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. ______ INITIALS _____ DATE_____

Pyrethrins+PBO/Mushroom FIELD ID NO: _ ID No. 05954.14-CA52 Ennes IR-4 FIELD DATA ROOK

	IR-4 FIELD DAT	A BOOK				
PART 6. APPLICATION RECORDS						
G. APPLICATION INFORMATION FOR APPLICATION NUMBER 5 APPLICATION DATE 7-						
HAS THE APPLICATION EQUIPMENT BEEN USED SINCE THE LAST CALIBRATION/RECHECK WAS PERFORMED? (Check one) YES NO (If YES, then a recheck is needed.)						
INSTRUCTIONS: Complete a separate for Treatment Number as indicated in the prochemical code number); the batch or lot num the carrier and the approximate time the mix spraying the tank mix; the time of additional apply this treatment; the placement of the test of carrier, formulated product and other additional units) of the nozzles above the canopy or growtreatment(s) were incorporated, the method of rotovator, irrigated, etc.), depth to which the substance into the soil; the time after treatment	otocol). Provide the name above of the test substance at the part was applied to the part agitation (if any); the ust substance (e.g. broadcalitives in the mix; the meanud (indicate which); the and/or equipment used to be test substance was incorporated.	late. Complete of of the test substantial in the approximate of the approximate of the name or coast, in-furrow, diasuring equipment of the approximate of the approx	one column for each tance (common cheme to the test substate the initials of the peode for the application of the initials of the peode for the application to the initials of the test substance mix (contents to the su	treated plot (use the ical name or unce was mixed with rson(s) mixing and on equipment used inded); the amount he distance (included at the boom; if e.g. disked, to move the test		
source (e.g. farm pond, city water), pH of the	e carrier and its temperat	ture, and the equ	ipment used to meas	ure the carrier pH.		
		TRT Num	nber <u>03</u>			
NUMBER OF DAYS SINCE PREVIOUS APPLICATION	//		AGITATION	DDITIONAL /INITIALS licable)		
TEST SUBSTANCE	Protection 6	PG	e. a. "10	0: 00" or		
BATCH/LOT NUMBER	AB 4580	2	"continuous" (to appli	or "just prior cation"		
TIME MIXED/INITIALS	9:54 Am	0/9				
TIME APPLIED/INITIALS	9:59 Am	er	0)	27-20-14		
EQUIPMENT IDENTIFIER		ron				
PLACEMENT OF TEST SUBSTANCE	growing of mu					
TANK MIX AMOUNTS		MEASURING E	QUIPMENT with I	NCREMENTS*		
CARRIER (starting volume of water)	186.9 ml		Sec fo 110 w	ing PEGT		
VOLUME of WATER REMOVED from starting volume (if applicable)	None		10k	7-20-14		
TEST SUBSTANCE (formulated product)	14.6ml	***************************************		***************************************		
ADJUVANT OR SURFACTANT	None					
TOTAL VOLUME OF TANK MIX	201.5ml	*e.g. 1000	mL grad. cylind	er/10 ml inor.		
NOZZLE DISTANCE from TARGET	Fugger spreyed	up into	ORDER IN WHICH			
PSI AT BOOM	None		W=Water, TS=Te A=Adjuvant			
INCORPORATION - Methodology and/or Equipment - DEPTH - TIME	QK.	7-20-14	*e.g. 1-W, 2-T 1- W 2- T.	# 1970 M. S.		
CARRIER SOURCE/TYPE	monterey me	shroom	2-T.	5		
CARRIER pH/TEMPERATURE	7.0	700 F				
EQUIPMENT used to MEASURE pH	ph strip					
ABOVE DATA ENTERED BY:	al Cu	res	DATE:	7-20-14		

PART 6 PAGE <u>43</u>

Description of Equipment Used to Measure Liquid Test Substances, Adjuvant and Carrier Water

FIELD ID No	Pyrethrins+PBO/Mush ID No. 05954.14-CA Ennes	52	cation No	5
plastic pipettes. T	to measure test substa he 5 ml and 10 ml pip in 0.2 ml increments.	-		
The following pip	bettes were used in thi	volume	ent used to resoft water:	
Test Substance5 ml	Adjuvant 5 ml	7-20-14 X NO	o Surfactant U	Jsed
10 ml	10 ml	T.:	S. Mixed Pric	or to Surfactant
	25 ml	Su	ırfactant Mixe	ed Prior to T.S.
50,100, 250, 500, increments of 1 m increments, 1000 increments. Carrie which measures w	inders used to measure 1000 and 4000 mls. It is 250 ml cylinder in 10 ml is ml cylinder in 10 ml is er water for airblast spragater out to hundredth inders or flow meter is	The 50 and 100 ml c 2 ml increments, 50 increments and the 4 orays is measured w s (i.e. 1.00)	cylinders mea 00 ml cylinder 4000 ml cylin 7ith a Scienco	sure in in 5 ml ider in 50 ml
Test Substance 50 ml	Adjuvant 50 ml	Carrier Water 50 ml	× 10	ipe+te
100 ml	100 ml	100 ml	,	
250 ml	250 ml	X 250 ml		
500 ml	500 ml	500 ml	Pa	art 6
1000 ml	1000 ml	1000 ml		
4000 ml	4000 ml	4000 ml		
	0.01	Scienco F	low meter	7-20-14
g: 1	11 1/6	2 2 2		1-10-11

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

H. ADDITIONAL INFORMATION FROM APP	PLICATION NUMBER 5
APPLICATION DATE 7-20-14	(Complete a separate form for each application date)

THE ELECTRICAL DITTE			A
PLANT GROWTH & ENVIRONMENTAL DATA AT THE TIME	OF APPLICATION	Enter data in this colum	n
CROP HEIGHT (Measure or estimate crop height, include units of	2-1. 1nches		
CROP GROWTH STAGE (e.g. seed, vegetative, bud, bloom, fruitin	g, #true leaves)	Fruiting	
CROP VIGOR (e.g. poor, fair, good, variable)*		6000	
PLANT SURFACE MOISTURE (Check one)	SATURATED	DAMP DRY_X	NA
ESTIMATED % OF SOIL AREA COVERED BY CROP CANOPY		20	
MEASURED AIR TEMPERATURE (Check F or C)		72.1 °F_X	°C
MEASURED WIND SPEED (Check MPH or Km/Hr)		O MPH_	Km/Hr
WIND DIRECTION FROM (Check one) N_ NE_ E_ S	E S SW	W NW or NO	WIND
ESTIMATED % OF CLOUDS IN THE SKY		Does not a	LPP14
MEASURED RELATIVE HUMIDITY%		75	, , ,
DEW (heavy, light, none, etc.)	Compost	119h+	
DESCRIPTION OF SOIL TILTH (smooth, firm, packed, cloddy, etc.	e.) <u> </u>	Smooth pu	ked
ESTIMATE OF SOIL SURFACE MOISTURE (wet, moist, dry, etc.)	moist	
SOIL TEMPERATURE (Check F or C)	1	70 °FX	°C
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check	k INCHES or cm)	4 INCHES X	em
*IF CROP VIGOR IS POOR OR VARIABLE, EXPLAIN:			
	20-14		
19/4	7-20-14		
BRIEFLY DESCRIBE PROCEDURE USED TO CLEAN APPLICATION OF THE PROCEDUR	ATION EQUIPMENT	followed t	he sun
procedure for cleaning as on.	Part 6H d	ated 6-19-1	4
	10-14		
- Dr	7-10-14		
	CI.	EANED BY ER	/In: :1: -1 1
ABOVE DATA ENTERED BY: David En	CL	DATE: 7-1	(Initials)
ABOVE DATA ENTERED BY:		DATE: 1	- 1

PART 6 PAGE 45

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

I. PASS TIMES FOR APPLICATION NUMBER 5
APPLICATION DATE 7-20-14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)
RECORD PASS TIME AND PASS DIRECTION - Complete the table by providing the time required to make each pass of the
application equipment through the plot and direction of that pass (e.g. NE).

	TREATM	ient <u>o</u> 3	7	TREATMENT		
PASS NUMBER		DIRECTION	PASS NUMBER	TIME	DIRECTION	
1	220,97 See	of room	1	\		
2			2			
3			3			
4			4			
5			5			
6		OK	6		ok	
7		7-20-14	7		7-20-14	
8			8			
9			9			
10			10			
11			11			
12			12			
TOTAL PASS TIME	220-97 50	c	e*			

O Time that the fogging unit was running of 7-20-14 PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION

(E.g. "Test substance was applied to the treated test plot in two passes; one pass down each side of the row. Each pass was applied to the soil, in a 3 ft. band out from the tree, with the spray boom 24 inches above the soil.")

The test substance was applied to the treated mushroom
boxes during 8-15 days of case hold 2 days before
15+ Sample hervest. The fogging unit orofice was pointed
upward towards the certing of the growing room at a 450 angle
At the time of the application the door to the
growing room was closed and the ventilation system was
Shut off. The fogging unit was ran past the time
required for colibration to ensure that all of the T.S.
Salution was dispersed
DR7-10-14 NARRATIVE ENTERED BY DE (Initials)
ABOVE DATA ENTERED BY: Daviel Europe DATE: 7-20-14
DATE.

ABOVE DATA ENTERED BY: PART 6 PAGE 46

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

page placed after this one, if there is not enough space below.

TAKE O. ALL EICHTION RECORDS
J. POST APPLICATION RATE CONFIRMATION FOR APPLICATION NUMBER 5 APPLICATION DATE 7 - 20 - 14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)
CALCULATION OF ACTUAL APPLICATION RATE - Using information such as total pass time, plot size, tank mix amounts, and discharge rate (average of 3 outputs) determine the actual amount of formulated test substance applied to treated plots. Even if a target rate was used for the pre-application calculations, the data from the calibration (average of 3 outputs) must be used for calculating the application rate. (If the protocol does not include a rate of formulated product, the the amount of active ingredient should be determined.) Convert this amount to the amount applied per acre (or hectare), and determine deviation from target application in the protocol, rounded to the nearest whole percent. Show all calculations and label all units. It is not sufficient to merely compare the actual pass times to the "practice" pass times. The example

EXAMPLE FORMULAS: The formulas below may be used to calculate the amount of test substance (TS) applied per acre as required in Part 61. Other formulas may be used instead; however, it is not sufficient to merely compare the actual pass times to the "practice" pass times.

formulas listed at the bottom of 6J may be used to calculate the application rate. Calculations may be entered on a separate

- 1) Total Pass Time x Discharge Rate/Nozzle x #Nozzles = Volume of Tank Mix applied to Plot
- 2) Volume of Tank Mix applied to Plot x <u>Amount of TS in Tank Mix</u> = Amount of TS applied to Plot Total Volume of Tank Mix
- 3) Amount of TS applied to Plot x $\underline{43,560 \text{ sq ft per acre}}$ = Amount of TS applied per acre Plot area treated in sq ft

WAS ACTUAL APPLICATION RATE WITHIN -5% TO	+10% OF PROTOCOL RATE?
(Check one) YESNO	IF NO, Contact the Study Director immediately
ABOVE DATA ENTERED BY:	Q Eurer DATE: 7-20-14
PART 6 PA	GE 47 Trial Year 2014

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS		
K. POST TREATMENT RECORDS FOR APPLICATION NUM	MBER 5	
7 2 1//	parate form for each applicat	ion date)
Was There Any Visible Phytotoxicity Damage? (Check one) Y. If YES, then contact the Study Director. If a digital camera is Director along with a detailed explanation of the damage. A w	available, email digital pho	
DK7-28	7-14	
	ICITY DESCRIBED BY: _	(Initials/date)
DATE STUDY DIRECTOR WAS CONTACTED: Enter the requested information below for <u>both</u> the first rainfall an subsequent applications were made prior to the first rainfall or irrig transcribed from the data included in Part 9 <u>unless otherwise indic</u> to incorporate the test substance, or if the test substance is applelow. "NONE BEFORE HARVEST" OR "NONE BEFORE	gation. The rainfall/irrigation ated on this page. If irrigation olied by irrigation, then that	data entered below should be on is required by the protocol event should be recorded
DATE OF FIRST RAIN (Note the date of first rainfall after this a	pplication.)	
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED (Check DAYS or HOURS) (Enter #hours if first rainfall was on the		DAYS HOURS
AMOUNT OF WATER	Ducsno	+ apply inches
(Check INCHES or mm)		0/4.7-18-14mm
RAIN INFORMATION RECORDED BY (Initials/date)		
TYPE OF IRRIGATION (e.g. overhead, trickle, flood)	Fog	
DATE OF FIRST IRRIGATION (Note the date of first irrigation	after this application.)	7-20-14
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED (Check DAYS or HOURS) (Enter #hours if first irrigation was on		KNOWN HOURS_
AMOUNT OF WATER (Check INCHES, mm, or mL)		me sored mm_ mL_
IRRIGATION INFORMATION RECORDED BY (Initials/date)	OR 9-11-	14
If the data entered above differ from the rainfall/irrigation data inc	luded in Part 9, explain:	Ok 9-11-14
	Initials/date:	
PART 6 PAGE	18	Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL IS IN FIELD DATA BOOK NO.	IE ORIGINAL" INITIALSDATI	E

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

C. DISC	CHARGI	E CALII	BRATIC	N FOR	APPLI	CATIO	N NUN	MBER_	6						
INSTRU calibrati	CTIONS	: Comp	lete a co	py of th	is form (PHOTO	OCOPY	IF NEC.	ESSARI	() for ad	lditional	times w	vhen a c	omplete	
EQUIPA	MENT II	DENTIF	IER												
DISCHA	RGE C.	ALIBRA	ATION I	DATE_					PERFO	RMED	BY			_ (INITI	ALS)
APPROX	KIMAN	E TIME	OF DA	Y THA	T THE C	CALIBR	RATION	WAS I	PERFO	RMED_					
PRESSU															
DISCHA	RGE U	NITS M	EASUR	RED (e.g	g. ml, oz.	, grams)								
INSTRU	MENT	USED 7	TO MEA	SURE	WATER	R (e.g. 1	00 ml g	raduated	d cylind	er)					
BRIEFL	Y DESC	CRIBE F	PROCEI	URE U	SED TO	CHEC Fer	CK DISC	CHARG Par	E CALI	BRATI 6 C	ON_ Jat	ed (6-19	9-14	<i>,</i>
					50	me	Ca	1.br	a tio	n U9	sed	for	A	PP 6	5
DISCHA Record t nozzles/h	noppers.	Entry p	prompts D wheth	have be	en prov esults ar	ided for e within	3 disch 5% (if	arge cal applical	libration ble). Sh	runs. (Calculat alculati	e sums d	and aver	ages of e	
RUN	TIME		Noz	zle/hopp	er Outle	et Numb	er Alon	g Boom	(see eq	uipment	diagrar	n for no	zzle nun	nbers)	
KUN	(sec)	1	2	3	4	5	6	7	8	9	10	11	Total	Output/ Nozzle	Output/ Second
1															
2															
3															
Total (required)															
Average (optional)															
CALCU		VS:						1				/		1	
Was this If yes, w If this is	ere resu a 3-disc	lts withi harge ca	n 5% of alibratio	`origina n run, a	l calibra re the av	tion or t erages (arget ou last col	umn on		(Chec	k one) k one)	YES		NO	_
the right An output amount output re produce	ut consis of test si esult of i	ting of a abstance	an avera to use. eck is m	ige of th If this ore than	ree runs is a rech 15% dit	s <u>or</u> a ta heck (on ferent th	rget out the run) to the contraction	tput may hen the l original	be used results of calibrate copy, n	d when of the or tion resi	k one) calculati iginal c ilt, then in this fi	ing the s alibration two mo	prayer on on must re runs o	NO_ output an be used. are neede	If the ed to
ABOVE	DATA	ENTER	ED BY	:1	ar	al)	2		re	r		DA	TE: <u>7</u>	-28-	14
					PA	ART 6	PAGE	49				Tri	al Yea	r 2014	
COMPLE THE OR							OPY OF	THE OR	IGINAL INITIAL			DATE			~~~~~~ ~~~

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6	. APPI	LICATION	RECORDS
--------	--------	----------	---------

F. VOLUME, MIXING AND DILUTION CALCULATIONS FOR APPLICATION NUMBER(S)

INSTRUCTIONS: Complete a separate form for each application, unless there are no changes in multiple applications. Show all calculations, formulas, and results below, define units of measure, and cite the initials of the person performing the calculations. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here. Computer-generated values (as opposed to those entered by the field cooperators) must be reviewed and clearly delineated by circling, initialing, and dating.

Refer to Part GF dated 6-19-14
The same celculations were used
for application 6

OK 7-28-14

DESCRIBE HOLDING AND TRANSPORT OF TEST SUBSTANCE FROM STORAGE AREA TO LOCATION OF TANK MIXING (E.g.: "Test substance held securely in an insulated cooler during transport to field site in the bed of a pickup truck" or "Tank mix prepared within walking distance of the chemical storage building")

	6
The test substance was	trunsported in a cooler with
	a pickup truck on 7-25-14
To clovis, cA and stored in	garage until 7-28-14. On 7-28.1
transported as above to	munterey mushroom
,	Ener DATE: 7-28-14
PART 6 PAG	GE <u>50</u> Trial Year 2014

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. ______ INITIALS ______DATE______

FIELD ID NO: _

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECO		6		7-70-1	14
G. APPLICATION INFORMATION FOR	APPLICATION NUMB	$BER _{\bigcirc}$ APP	LICATION DATE	1-28-1	7
HAS THE APPLICATION EQUIPMENT B CALIBRATION/RECHECK WAS PERFOF			ck one) YES ES, then a recheck is	NO needed.)	
INSTRUCTIONS: Complete a separate for					se the
Treatment Number as indicated in the pro					.1: 41.
chemical code number); the batch or lot nun the carrier and the approximate time the mix					
spraying the tank mix; the time of additional					
apply this treatment; the placement of the tes					
of carrier, formulated product and other add units) of the nozzles above the canopy or gro					
treatment(s) were incorporated, the method i					,
rotovator, irrigated, etc.), depth to which the	test substance was incor	porated or the a	mount of water used	to move the te	
substance into the soil; the time after treatme					
source (e.g. farm pond, city water), pH of the	e carrier and its temperat 		-	ure the carrier	• рн.
		TRT Nun		DDIMIONAL	
NUMBER OF DAYS SINCE PREVIOUS APPLICATION	8			ADDITIONAL I/INITIALS	
TEST SUBSTANCE	Evergreen cr	OP.		licable) 0:00" or	
TEST SOBSTANCE	protection 6.		"continuous"	or "just pr	i or
BATCH/LOT NUMBER	AB 45 80		to appl	cation"	A*******
TIME MIXED/INITIALS	7:56 AM	DR		63 - 6 - 4	. /
TIME APPLIED/INITIALS	7:59 AW	nok		127-28-19	1
EQUIPMENT IDENTIFIER	Cardinal mic	ron			
	Forging of mu	shroom	1		\
PLACEMENT OF TEST SUBSTANCE TANK MIX AMOUNTS	growing room	MEASURING E	QUIPMENT with I	NCREMENTS*	
CARRIER (starting volume of water)	186-9ml		Sec follow	ing page	
VOLUME of WATER REMOVED			200 1011	J / /	
from starting volume (if applicable)	None		OR	7-28-14	
TEST SUBSTANCE (formulated product)	14-6ml				
ADJUVANT OR SURFACTANT	None				
TOTAL VOLUME OF TANK MIX	201.5ml	*e.g. 1000	mL grad. cylind	er/10 ml in	rer.
NOZZLE DISTANCE from TARGET	Fogger Spriges	rupinto	ORDER IN WHICH		E
PSI AT BOOM	None		W=Water, TS=Te A=Adjuvant	est Substan	ce,
INCORPORATION	P	2 9-11-14	*e.g. 1-W, 2-5	rs, 3-A, 4-1	W
- Methodology and/or Equipment - DEPTH	701		1- (1)		
- TIME			1-W		
CARRIER SOURCE/TYPE	menterey in water		2-73		
CARRIER pH/TEMPERATURE	7.0	62°F			
EQUIPMENT used to MEASURE pH	phstrip				
Ω	in a constant		DATE	7-28-19	7
ABOVE DATA ENTERED BY:			DATE:	0 1	

PART 6 PAGE <u>51</u>

Description of Equipment Used to Measure Liquid Test Substances, Adjuvant and Carrier Water

Pyrethrins+PBO/Mushroom

	ID No. 05954.14-CA52		
FIELD ID No	Ennes	Application No	4
plastic pipettes. Th		nces or adjuvants are 5 ml, 10 m ttes measure in 0.1 ml incremen	,
The following pipe	ettes were used in this	Equipment used to re volume of water:	emove
Test Substance5 ml	Adjuvant 5 ml		Used
10 ml	10 ml	T.S. Mixed Price	or to Surfactant
	25 ml	Surfactant Mixe	ed Prior to T.S.
50,100, 250, 500, 1 increments of 1 ml increments, 1000 mincrements. Carrier	1000 and 4000 mls. The property of the contract of the contrac	test substance, adjuvant or care 50 and 100 ml cylinders mea ml increments, 500 ml cylinder crements and the 4000 ml cylinays is measured with a Scienco (i.e. 1.00)	sure in r in 5 ml nder in 50 ml
The following cyli	nders or flow meter we	ere used in this study:	
Test Substance 50 ml	Adjuvant 50 ml	Carrier Water 50 ml	10 ml pipette
100 ml	100 ml 100 ml 250 ml	100 ml	
250 ml	250 ml	$\chi_{250 \text{ ml}}$	

1000 ml 1000 ml 1000 ml 4000 ml 4000 ml 4000 ml Scienco Flow meter

500 ml

500 ml

500 ml

IR-4 FIELD DATA BOOK

H. ADDITIONAL INFORMATION FROM A	PPLICATION NUMBER 6
APPLICATION DATE 7-28-14	 _(Complete a separate form for each application date)

APPLICATION DATE (Complete a sept	irate form for each app	olication date)		
PLANT GROWTH & ENVIRONMENTAL DATA AT THE TIME	OF APPLICATION	Enter data in	n this column	1
CROP HEIGHT (Measure or estimate crop height, include units of measurements)			inch	es
CROP GROWTH STAGE (e.g. seed, vegetative, bud, bloom, fruiting, #true leaves)			iting	
CROP VIGOR (e.g. poor, fair, good, variable)*		6	ood	
PLANT SURFACE MOISTURE (Check one)	SATURATED	DAMP	DRY <u>X</u>	NA
ESTIMATED % OF SOIL AREA COVERED BY CROP CANOPY			80	
MEASURED AIR TEMPERATURE (Check F or C)		66.	7 °F_X	°C_
MEASURED WIND SPEED (Check MPH or Km/Hr)			()	Km/Hr
WIND DIRECTION FROM (Check one) N_ NE_ E_ S	E S SW	W NW	v or NO	WIND_{
ESTIMATED % OF CLOUDS IN THE SKY		Does	notal	ply
MEASURED RELATIVE HUMIDITY%		7/	/	
DEW (heavy, light, none, etc.)	Compost	No	ne	
DESCRIPTION OF SOIL TILTH (smooth, firm, packed, cloddy, etc.) Compost	5 moo	th pas	hed
ESTIMATE OF SOIL SURFACE MOISTURE (wet, moist, dry, etc.,			1015F	
SOIL TEMPERATURE (Check F or C)		66	o _F	°C_
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check INCHES or cm)			NCHES_	cm_
*IF CROP VIGOR IS POOR OR VARIABLE, EXPLAIN:	3-14			
- Die				
			-	
BRIEFLY DESCRIBE PROCEDURE USED TO CLEAN APPLICATION APPLICATION OF Proceedure for cleaning a	S on Part	Follow GH da	ted 6-1	19-14
			,	
A - A	CLE	ANED BY_	OR	_ (Initials)
ABOVE DATA ENTERED BY:	· · · ·	DATE:	7-28	-14
DADE CRACE	!	m	** ***	

PART 6 PAGE <u>53</u>

Trial Year 2014

FIELD ID NO: _ Ennes IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

I. PASS TIMES FOR APPLICATION NUMBER 6

APPLICATION DATE 7 - 28 - 14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)

RECORD PASS TIME AND PASS DIRECTION - Complete the table by providing the time required to make each pass of the application equipment through the plot and direction of that pass (e.g. NE).

application equipment three	ougn the plot and aire	ction of that pass (e.	g. NE).		
	TREATM	IENT <u>0</u> 3	TREATMENT		
PASS NUMBER	O TIME	DIRECTION	PASS NUMBER	TIME	DIRECTION
1	205.31 5cc		1		
2			2	OK	7-28-14
3	OK	7-28-14	3		
4			4		
5			5		
6			6		
7			7		\
8			8		
9			9		
10			10		
11			11		
12			12		
TOTAL PASS TIME	205-3150	С			

O Time that the fogging unit was running OR 7-28-14
PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION

(E.g. "Test substance was applied to the treated test plot in two passes; one pass down each side of the row. Each pass was applied to the soil, in a 3 ft. band out from the tree, with the spray boom 24 inches above the soil.")

The fest substance was applied to the treated mush room boxes between 1st and 2nd break, after first sample harvest 2 clays before second harvest. The fogging unit orofice was pointed upward towards the ceiling of the growing room at a 45° angle At the time of the application the cloor to the growing room was closed and the ventilation system was shut off. The fogging unit was ren past the time required for calibration to ensure that all of the test substance solution was dispersed into the growing room NARRATIVE ENTERED BY Off (Initials)

ABOVE DATA ENTERED BY: Cource Comment of the past of the sure of the sur

PART 6 PAGE 54

Trial Year 2014

FIELD ID NO: _

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS
J. POST APPLICATION RATE CONFIRMATION FOR APPLICATION NUMBER 6
APPLICATION DATE 7-28-14 (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)
CALCULATION OF ACTUAL APPLICATION RATE - Using information such as total pass time, plot size, tank mix amounts, and discharge rate (average of 3 outputs) determine the actual amount of formulated test substance applied to treated plots. Even if a target rate was used for the pre-application calculations, the data from the calibration (average of 3 outputs) must be used for calculating the application rate. (If the protocol does not include a rate of formulated product, then the amount of active ingredient should be determined.) Convert this amount to the amount applied per acre (or hectare), and determine deviation from target application in the protocol, rounded to the nearest whole percent. Show all calculations and label all units. It is not sufficient to merely compare the actual pass times to the "practice" pass times. The example formulas listed at the bottom of 6J may be used to calculate the application rate. Calculations may be entered on a separate page placed after this one, if there is not enough space below.
EXAMPLE FORMULAS: The formulas below may be used to calculate the amount of test substance (TS) applied per acre as required in Part 6I. Other formulas may be used instead; however, it is not sufficient to merely compare the actual pass times to the "practice" pass times. 1) Total Pass Time x Discharge Rate/Nozzle x #Nozzles = Volume of Tank Mix applied to Plot
2) Volume of Tank Mix applied to Plot x Amount of TS in Tank Mix Total Volume of Tank Mix Total Volume of Tank Mix
3) Amount of TS applied to Plot x <u>43,560 sq ft per acre</u> = Amount of TS applied per acre Plot area treated in sq ft

DISCHARGE RATE (ml/sec or g/sec): 167.05 Sec
ACTUAL AREA TREATED (swath width or treated row or bed width $x \# of passes x length of plot): 6-83 ff = 493.48 ff.^3$ Note: Use bed width for plots with multi-row beds.
The growing room was vented at 8:41 Am.
Visually looked at the graduated cylinder
that held the T.S. solution and observed
that all of the solution had been dispersed
by the Cardinal fogger into the room
14-6 ml T.5 x 10000 fr3 = 295.86 m 1/10000 fr3
4 93. 48 ft 3
295-86 m1/10000fr3 (Actual rate) x 100 = 99.95 % of target 296 m1/10000fr3 (Protocol rate) of target rate 296 m1/10000fr3
from target
WAS ACTUAL APPLICATION RATE WITHIN -5% TO +10% OF PROTOCOL RATE? (Check one) YES NO IF NO, Contact the Study Director immediately.

ABOVE DATA ENTERED BY: Occur Comments DATE: 7-28-14

PART 6 PAGE 55

Trial Year 2014

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS	,			
K. POST TREATMENT RECORDS FOR APPLICATION NU				
APPLICATION DATE 7 - 28 - 14 (Complete a separate form for each application date)				
Was There Any Visible Phytotoxicity Damage? (Check one) YES NO OF The Visible Phytotoxicity Damage? (Check one) YES NO OF The Visible Phytotoxicity Damage?				
If YES, then contact the Study Director. If a digital camera is	available, email digital pho	tograph(s) to the Study		
Director along with a detailed explanation of the damage. A v	vritten description should al	so be entered below:		
	19/27-30-14			
	2751			
РНҮТОТОХ	ICITY DESCRIBED BY:	(Initials/date)		
DATE STUDY DIRECTOR WAS CONTACTED:	CONTACTED BY:	(Initials/date)		
Enter the requested information below for both the first rainfall an	d first irrigation after each ap	plication, regardless of whether		
subsequent applications were made prior to the first rainfall or irritanscribed from the data included in Part 9 unless otherwise indicates indicates and included in Part 9 unless otherwise indicates indicates and included in Part 9 unless otherwise indicates indicates and included in Part 9 unless otherwise indicates and included in Part 9 unl	gation. The rainfall/irrigation rated on this page. If irrigation	on is required by the protocol		
to incorporate the test substance, or if the test substance is app	olied by irrigation, then that	event should be recorded		
below. "NONE BEFORE HARVEST" OR "NONE BEFORE		ITERED, IF APPLICABLE.		
DATE OF FIRST RAIN (Note the date of first rainfall after this a	ipplication.)			
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSEI		DAYS		
(Check DAYS or HOURS) (Enter #hours if first-rainfall was on the		HOURS		
AMOUNT OF WATER	Dozs no	apply inches_		
(Check INCHES or mm)		er 7-28-14 mm_		
RAIN INFORMATION RECORDED BY (Initials/date)				
TYPE OF IRRIGATION (e.g. overhead, trickle, flood)	watering hos	e by havel		
${\tt DATE\ OF\ FIRST\ IRRIGATION\ (Note\ the\ date\ of\ first\ irrigation}$	after this application.)	7-28-14		
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED	TO FIRST IRRIGATION	KNOWN DAYS_		
(Check DAYS or HOURS) (Enter $\#$ hours if first irrigation was \underline{on}		HOURS		
AMOUNT OF WATER				
AMOUNT OF WATER (Check INCHES, mm, or mL)		NOT INCHES_ measured mm_		
,,		mL		
IRRIGATION INFORMATION RECORDED BY (Initials/date)	OR 9-11-	14		
If the data entered above differ from the rainfall/irrigation data inc	-	٠		
DR 9	-11-14			
	Initials/date:			
PART 6 PAGE _5	16	Trial Year 2014		
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE	IE ORIGINAL"			

FIELD ID NO: _

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

L.I. DIFFERENTIATION OF MULTIPLE TRIALS CONDUCTED IN CLOSE PROXIMITY*
ARE YOU CONDUCTING MORE THAN ONE TRIAL IN THIS STUDY? YES NO
IS ANOTHER FIELD RESEARCH DIRECTOR IN THIS STUDY CONDUCTING A TRIAL WITHIN 20 MILES OF YOUR TRIAL(S)? YES NO
If "NO" is checked twice, then no other input is needed except for signing and dating at the bottom of each page If "YES" is checked at least once, then an independently prepared tank-mix must be used in each trial, except in studies in which this is not applicable such as studies with granular formulations.
In order to differentiate these trials, select one option from Set 1 <u>OR</u> two options from Set 2.
If $\underline{3}$ or more trials in this study cannot be differentiated by the same options, then you should check all options that have been used, and explain below which options are differentiating between which trials.
If different crop varieties are being used as a differentiation option, then enter below information that explains why these varieties were chosen. Examples: Variety A produces large fruit, whereas Variety B produces small fruit. Variety A produces fruit with a smooth skin, whereas Variety B produces fruit with a rough skin. Varieties A and B are the two most commonly grown cultivars in this state.
If options are used that are listed in the protocol but are not listed in the table in Part 6.L.2, then enter descriptions of those options below.
Enter below any additional information that will improve the understanding of the options that have been chosen
*Trials conducted in different calendar years are exempt from these requirements. (If separate trials by the same person or within 20 miles are conducted in late fall/early winter, then the differentiation options should be used to reduce the possibility of data rejection by a regulatory agency.)
Trial IDs of other trials in this study to which these options are being applied:
Additional information:
CA52- white botton mughroom
CA53- Oyster mushroom
An independently prepared tank mix will be
used in each trial for each application
8/2 6-19-14
ABOVE DATA ENTERED BY: David Emas DATE: 6-19-14
PART 6 PAGE <u>57</u> Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. INITIALS DATE

FIELD ID NO: Ennes IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

L.2. DIFFERENTIATION OF MULTIPLE TRIALS (IF YOU CHECKED "YES" ON THE PREVIOUS PAGE) Check the options (in the third column) used to differentiate the trials that you are conducting in this study:

Set	Option		Description					
	Α		Trial sites must be separated by at least 20 miles (32 km)					
	В	1	First application or planting date (for annual crops) in each trial is separated by at least 30 days					
1	С		Different crop variety (different size or shape at maturity, rough vs. smooth surface, different amount of foliage shielding the commodity, different rate of growth, or representative of the major varieties grown within the region)—confirm with Study Director if this option will be chosen					
	А		Spray volume must vary by at least 25% of the lower volume (minimum 10 GPA difference) Example 1, Trial A has a volume of 20 GPA and Trial B has a volume ≥ 30 GPA Example 2, Trial A has a volume of 60 GPA and Trial B has a volume ≥ 75 GPA The trial with the lowest spray volume for the first application must remain the lowest for each application; the trial with the highest must remain the highest for each, and so on					
	В		Use of an adjuvant (of any suitable type) in the tank mix for one trial vs. no adjuvant in the tank mix for another trial					
	С		Different foliar application type: foliar directed or foliar broadcast (Do not use this option if the label instructions for this commodity will specify one type or the other)					
	D		Different granular application type: broadcast or banded (only if label supports both types)					
	Е		Different types of application equipment be used in each trial (for example, tractor-pulled boom sprayer tractor-pulled spreader, airblast sprayer, axial fan orchard sprayer, proptec sprayer, cannon mist sprayer, tower sprayer, over-row sprayer, tunnel sprayer, backpack sprayer, waist pack sprayer, hand gun, hand-held spreader, or shaker can)					
	F		Different spray droplet size (fine, medium, coarse, very coarse, or extra coarse) This may be accomplished by changing nozzles and/or by changing spray pressure Document in the Field Data Book the droplet size that results from the pressure and nozzles used in the trial (nozzle catalog may be used as a reference) Coarse, very course, and extra course are appropriate for herbicides only					
2	G		Different incorporation method for soil-applied test substance: mechanical or irrigation					
	Н							
	I		Different band width for soil applications: band width must vary by at least 50% of the lower width Different irrigation type (drip or furrow or sprinkler/over-the-top) (Irrigation must be applied at least once after each application, but over-the-top irrigation must not be applied within one hour of an application, and irrigation is not needed following the last application if samples are to be collected on the same day)					
	J		For test substances that must be applied through drip irrigation: surface drip line or buried drip line					
	К		Different planting arrangement for annual crops: single row beds or multi-row beds (two or more rows on each bed)					
	L		One trial shall have trellised plants and the other shall not					
	М		Different training system for fruit trees (for example, central leader or open center)					
	N		Different maturity of trees or bushes in fruit and nut studies—young trees or bushes in one trial and mature trees or bushes in the other (minimum 5 year age difference); all trees/bushes must be commercially productive					
	0		Different soil series, type, or texture (only in trials in which applications are made to the soil)					
	P		Different formulations of the test substance (within the types generally considered equivalent) (This option may be used only if the alternate formulation is included in Section 13 of this protocol or is added by protocol amendment)					

ABOVE DATA ENTERED BY: Ocuriel	Euner	DATE: 6-19-14	
PART 6 PAG	GE <u>58</u>	Trial Year 2014	
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO.	OF THE ORIGINAL"INITIALS	DATE	

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

COMPLETE IF APPROPRIATE:

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. ___

M. APPLICATION EQUIPMENT MAINTENANCE AND REPAIR LOG

INSTRUCTIONS: Complete this form or provide equivalent information. Provide dates and a brief description of maintenance and repair work completed on the application equipment relevant to this trial. Be sure to date and initial all entries.

				ment relevant to this triat. De sure to date and thillat all entries.
APPLICATION EQU	JIPMENT II	DENTIFII	ER Ca	rdinal Micron Muster Fugger
EQUIPMENT USED	FOR APPL	ICATIO	N NUMI	BERS 1-6
INITIALS/DATE				
	ION EQUIP	PMENT, C	OR ATTA	F ANY CALIBRATION, MAINTENANCE AND REPAIR WORK DONE ACH TRUE COPIES OF THE LOGS. BLE.
	Was Mair or Repair (Check or	routine?		
Initials and Date	Yes	No	SOP#	Description
				•
			-	
		1		
×				Refer to the following page
				Bk 9-8-14
			-	
	•		PART	6 PAGE <u>59</u> Trial Year 2014

"THIS IS A TRUE COPY OF THE ORIGINAL"

DATE_

Borrowed Equipment Data Sheet

Field ID No.:__ Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Owner/Source: Cardinal Professional Products Woodland, CA
Description of equipment, e.g., type, make, and model: Cardinal micron
Magter fugger
Year manufactured (when available): No f available
Year acquired (when available): 2014
Purpose: Fogging mughroom growing room
Condition upon receipt (e.g., good, needed repair)
Maintenance preformed (when applicable):
Modifications required (when applicable): Nonc
Cleaning/decontamination procedures preformed: <u>efter each applies tion</u>
Field Research Director statement of suitability for use: This cait is
Suitable for use in this trial
Date of use: $6/19$, $6/20$, $6/25$, $7/9$, $7/20$, $7/28/14$
Time procedure initiated and completed: Refer to Part. 6 G and I for each application
for each application
Part 4 Pape: 60
Signature Ewil Eurez Date 9-8-14

Sample Collection Part 7

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 7. SAMPLE COLLECTION AND STORAGE A.1. GENERAL HARVESTING INFORMATION INSTRUCTIONS: Comp	plete a separate form for each sampling date.
HARVEST DATE ¹ 7-22-14 SAMPLING DATE ² 7-22-	
¹ Record the date of crop harvest (harvest defined as crop digging, crop cutting, p. ² Enter the date the sampled crop items were placed in sample bags (i.e. sample c. ³ Record the number of days from last application to harvest (PHI)	picking, etc.) 5th application
IF THE PHI IS 0 DAYS, WAS THE SPRAY DRY BEFORE THE CROP WAS HAR (Check NA if PHI>0 days or if the test substance was not sprayed, e.g. a granular application of the period of the test substance was not sprayed, e.g. a granular application of the period o	
DESCRIPTION OF HARVESTED CROP STAGE	
(E.g. commercially mature lettuce heads, blueberries mature in size (mostly blue	in color), mature plums for drying)
Commercially mature mughroom (m.	
Number of (check one) Plants Trees Bushes Areas_X_ of the Plot from Which Each Sample was Collected	4 Mughroom boxes per
Number and Location of Rows from Which Each Sample Was Collected	Hot +12 areas
Examples: "6 middle rows" "All 3 rows" "1" (for single-row plot)	per plot +12 mushrooms/sample
Minimum Number of (check one) Fruit Heads Roots	+12 mushrooms/sample
Plants Other (describe) Actually Collected per Sample	(If a minimum is required by the protocol)
Number of (check one) Plants Trees Bushes at Each End,	Didnot sample 4inches
or (check) Length of Row Ends X, That Were Not Sampled	on each end of boxes
Was Less Than 50% of the Harvestable Crop Sampled?	YES NO
(May be determined by visual estimation)	If no is checked, contact the Study Director
Was Each Sample Collected in a Separate Run Through the Entire Plot?	YES NO If no is checked, contact the Study Director
WARNING POWER COMMON AND A LANGE OF THE COMMON AND AND AND AND AND AND AND AND AND AN	
HARVESTING EQUIPMENT (Provide a brief description of harvesting equipappropriate. Do not include gloves, sample bags, coolers, or scales.)	oment, including make and model numbers, ty
mushroom Knife	
ORDER OF SAMPLE COLLECTION Trrol fample A,	B TRTO3 Sample CF, DF
BRIEFLY DESCRIBE PROCEDURES UTILIZED TO HARVEST CROP. entered above to ensure that protocol requirements have been met and to in crop was harvested. Examples: "Hand-picked berries from one side of the row and low, exposed and shielded areas." "Barley was cut 3-4 inches above the gr dry for hay samples. Each entire plot was cut." ATTACH A SEPARATE SHEE There were two representative samples of the mushrooms were pulked by hand from was cot off with a knife at about bottom of the stem was discarded and Were harvested crop items collected directly into residue sample bag IF NO, PLEASE EXPLAIN	form a data reviewer exactly how this to, then the other. Collected fruit from high round with a scythe and left on the ground to ET IF NECESSARY. Collected from each plot boxes and the stem the helfway point. The the top portion vetained
D	N.
ABOVE DATA ENTERED BY: David Enne	DATE: 7-22-14
PART 7 PAGE	
	Trial Year 2014

FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 7. SA	MPLE	COLL	ECHO	NA	ND	210	JKAGE
------------	------	------	------	----	----	-----	-------

A.2. GENERAL SAMPLING INFORMATION--Complete a separate form for each sampling date.

DESCRIPTION OF SAMPLED CROP STAGE (if different from harvested crop, such as dried plums, mint oil)

Same as previous page

IF THE SAMPLING OCCURRED AFTER THE HARVEST DATE, DESCRIBE SAMPLE COLLECTION. ALSO, DESCRIBE ANY MODIFICATIONS TO THE HARVESTED CROP SUCH AS TRIMMING, CLEANING, CUTTING, DRYING AND/OR COMPOSITING SAMPLES. IF THE MODIFICATIONS ARE TOO COMPLEX TO BE DESCRIBED BELOW, ATTACH A SEPARATE SHEET THAT CLEARLY DESCRIBES THE MODIFICATION PROCEDURES

Include a description of equipment, duration of procedure(s), temperatures, estimated moisture content, etc., as appropriate.

include a description of equipment, duration of procedure(s), temperatures, estimated moisture content, etc., as appropriate.
The stems of each mushroom collected were cut with
a knift about at the halfway point. The bottom
of the stem was discarded and the cap and other
half of stem were retained for samples. The discarded
Steams for all samples were placed into trash dispusal
As the mughrooms were collected any loose adhering
media on nushrooms was lightly brushed off
with a clean gloved hand.
Ok 9-11-14
CHECK ALL PROCEDURES USED TO PREVENT CONTAMINATION OF RESIDUE SAMPLES
UNCONTAMINATED GLOVES WORN AND CHANGED BETWEEN SAMPLES
TREATMENTS WERE SAMPLED BY DIFFERENT PEOPLE

PHYSICALLY SEPARATED TREATED AND UNTREATED SAMPLES

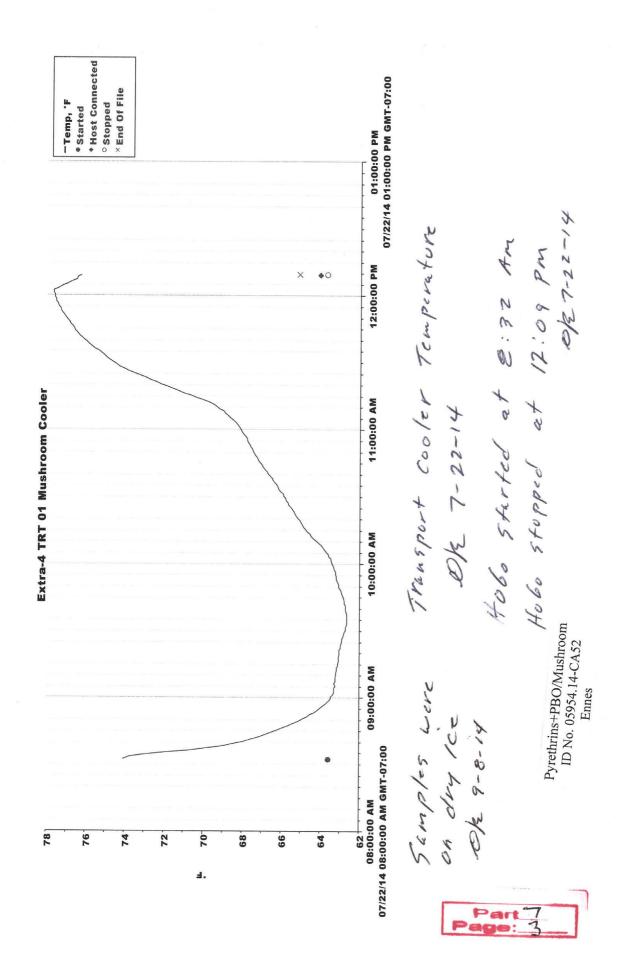
CLEANED SAMPLING EQUIPMENT BETWEEN COLLECTIONS OF EACH TREATMENT

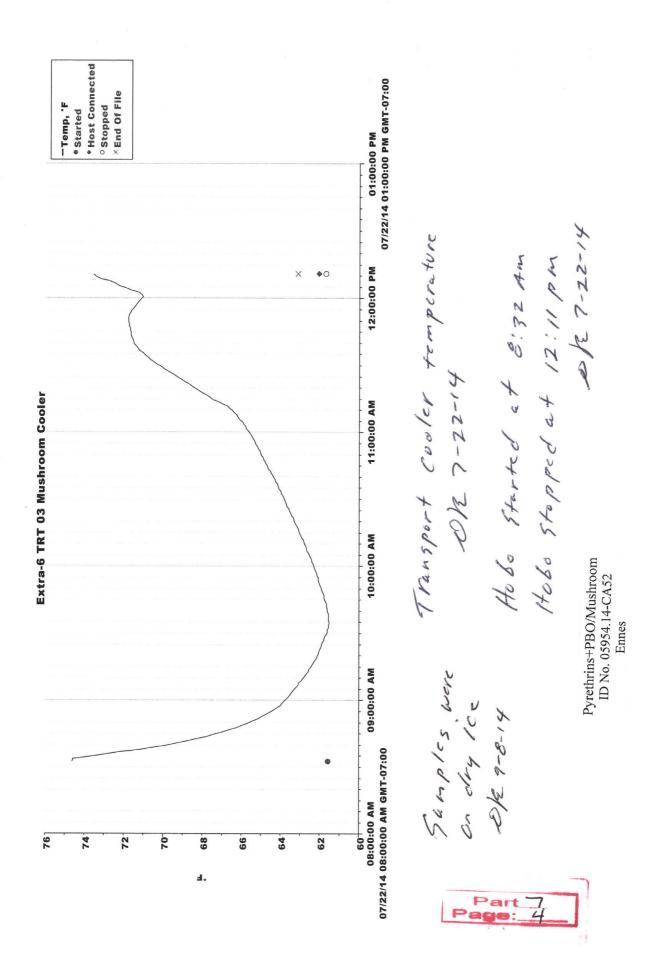
X OTHER, EXPLAIN: The mush room Knife was cleaned with soap and water prior to sampling, between Samples and after sampling

DESCRIBE HOLDING AND TRANSPORT OF SAMPLES FROM FIELD TO FREEZER

(E.g. Sample bags placed in cooler with blue ice, then transported by pickup truck to research center for pitting. Following pit removal, sample bags were hand-carried to freezer.)

The Samples were transported in separate coor	lers with dry
Ice, Hobodata logger Extra-4 with TETOI Cooler	
TRT03 cooker. The data loggers were placed on to,	0
ABOVE DATA ENTERED BY: Carried English	DATE: 7-22-14
As the second of	
truck to the freezer PART 7 PAGE 1 placed into	IR-4 UTC
and Tat chest freezers. when samples place they were partially frozen since they we with the dry ice in buttom of some they w	
with the dry ice in bottom of conters.	// (DA . DC .





FIELD ID NO: Ennes
IR-4 FIELD DATA BOOK

PART 7. SAMPLE COLLECTION AND STORAGE

B. SPECIFIC SAMPLE INFORMATION AND INVENTORY

INSTRUCTIONS: Complete this form or provide equivalent information. USE A SEPARATE PAGE FOR EACH SAMPLE DATE. Enter the date the individual samples were collected (do not enter the harvest date when this date is different from sample date), the sample ID (see protocol Section 18 for Sample ID code), a brief description of the crop part sampled (e.g. turnip roots, turnip tops, tomato fruit, corn forage etc..), the weight of the sample, the approximate time of day of completion of each sample collection—i.e., sample placed in sample bag following any modifications (e.g., 10:15 a.m.), the approximate time of day that each sample was placed in a freezer, the approximate time interval between completion of collection of each sample (placement of the sample in sample bag) and the placement of the sample in freezer (e.g., 45 minutes), the identification code of the freezer where the samples are stored, and the initials of the person providing the above information and the date it is entered on this form.

SAMPLE COLLECTION DATE: 7-22-14

SAMPLE ID*	CROP FRACTION	WEIGHT (INCLUDE UNITS)	APPROXIMATE TIME OF DAY OF COMPLETION OF SAMPLE COLLECTION		COLLECTION	FREEZER ID	INITIALS & DATE
A	Mushroom	2.20165	7:59 Am	12:02 PM	4hr 3min	Creeter	Op 7-22-14
B	1	2.14 165	8:07 AM		3 hr 55min		
CF		2.20165	8:15 Am		3 hr 47min	trett-	
DF	V	2.24165	8:30 AM	V	3 hr 32 min	1	1
	·						
			OR	7-22-14			
			3				

^{*} See Protocol Section 18 for assigned Sample ID code

Was a GLP-maintained scale used to determine weight of residue samples? YES_____ NO____

CROP DESTRUCT: Please describe in Part 5I of this Field Data Book <u>how</u> the (leftover) treated crop has been destroyed or handled in such a way that it cannot be consumed as a human food or animal feed.

ABOVE DATA ENTERED BY:

PART 7 PAGE 5

Trial Year 2014

FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 7. SAMPLE COLLECTION AND STORAGE A.1. GENERAL HARVESTING INFORMATION INSTRUCTIONS: Comp.	plete a separate form for each sampling date.
HARVEST DATE 7-30-14 SAMPLING DATE 7-70-1 Record the date of crop harvest (harvest defined as crop digging, crop cutting, properties the date the sampled crop items were placed in sample bags (i.e. sample of Record the number of days from last application to harvest (PHI)	oicking, etc.) PHI3 2 days after
IF THE PHI IS 0 DAYS, WAS THE SPRAY DRY BEFORE THE CROP WAS HAP (Check NA if PHI>0 days or if the test substance was not sprayed, e.g. a granular application).	RVESTED? YES NO NAX
DESCRIPTION OF HARVESTED CROP STAGE (E.g. commercially mature lettuce heads, blueberries mature in size (mostly blue	in color), mature plums for drying)
Commercially mature mushroom (m	arket size)
Number of (check one) Plants Trees Bushes AreasX	4 mush room boxes
of the Plot from Which Each Sample was Collected	+12 areas
Number and Location of Rows from Which Each Sample Was Collected Examples: "6 middle rows" "All 3 rows" "1" (for single-row plot)	4 Mushroom
Minimum Number of (check one) Fruit Heads Roots	+12 mushrooms/semple
Plants Other_ / (describe) Actually Collected per Sample	
N. J. C(J. J.) DI () T. D. J. D.	(If a minimum is required by the protocol)
Number of (check one) Plants Trees Bushes at Each End,	Didnot sample ~ 41h
or (check) Length of Row Ends , That Were Not Sampled	on each end of boxes
Was Less Than 50% of the Harvestable Crop Sampled? (May be determined by visual estimation)	YES NO
Was Each Sample Collected in a Separate Run Through the Entire Plot?	If no is checked, contact the Study Director YES NO
was Each Sample Conected in a Separate Run Through the Entire Plot:	If no is checked, contact the Study Director
HARVESTING EQUIPMENT (Provide a brief description of harvesting equipappropriate. Do not include gloves, sample bags, coolers, or scales.)	
mush room knife	
ORDER OF SAMPLE COLLECTION TRT 03 Sempl	e EF, FF
BRIEFLY DESCRIBE PROCEDURES UTILIZED TO HARVEST CROP. entered above to ensure that protocol requirements have been met and to interpreted to ensure that protocol requirements have been met and to interpreted to examples: "Hand-picked berries from one side of the row, and low, exposed and shielded areas." "Barley was cut 3-4 inches above the gradry for hay samples. Each entire plot was cut." ATTACH A SEPARATE SHEET FOLLOWED THE GRADE PROCEDURE COSTONIA CONTRACTOR OF THE CONTRACTOR OF THE PROCEDURE COSTONIA COSTONIA CONTRACTOR OF THE PROCEDURE COSTONIA	form a data reviewer exactly how this then the other. Collected fruit from high ound with a scythe and left on the ground to IT IF NECESSARY. The first of the first of the ground to
	OR 7-30-14
Were harvested crop items collected directly into residue sample bag	s? YESNO
IF NO, PLEASE EXPLAIN	7-30-14
ABOVE DATA ENTERED BY: Down Eme	DATE: 7-30-14
PART 7 PAGE 6	R .4 Trial Year 2014
Total number of pages in this section at initial pagination:	-16-1

FIELD ID NO:

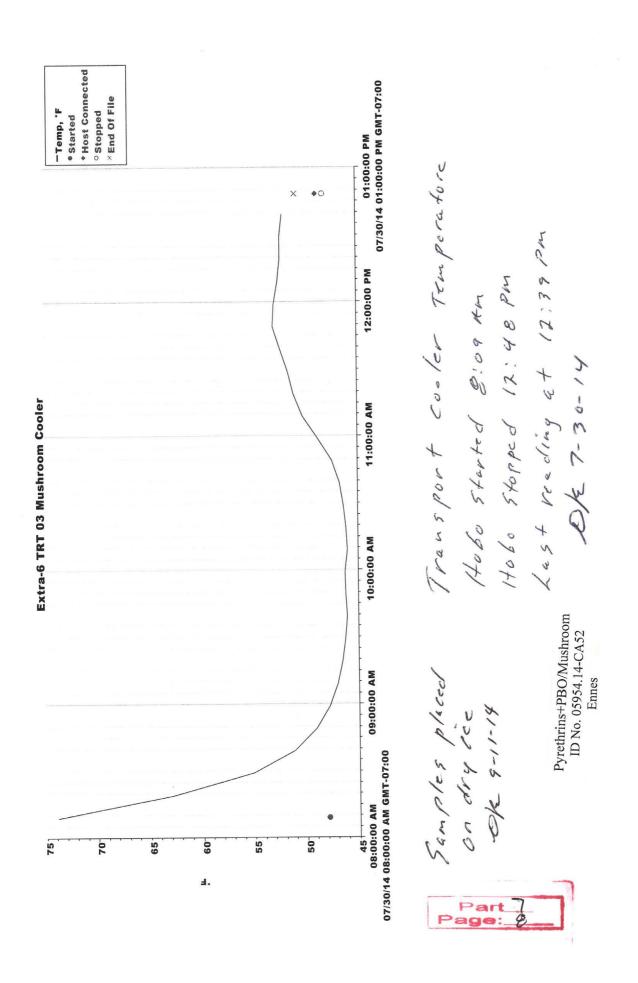
Ennes

IR-4 FIELD DATA BOOK

PART 7. SAMPLE COLLECTION AND STORAGE A.2. GENERAL SAMPLING INFORMATIONComplete a separate form for each sampling date.
DESCRIPTION OF SAMPLED CROP STAGE (if different from harvested crop, such as dried plums, mint oil)
Same as previous page
IF THE SAMPLING OCCURRED AFTER THE HARVEST DATE, DESCRIBE SAMPLE COLLECTION. ALSO, DESCRIBE ANY MODIFICATIONS TO THE HARVESTED CROP SUCH AS TRIMMING, CLEANING, CUTTING, DRYING AND/OR COMPOSITING SAMPLES. IF THE MODIFICATIONS ARE TOO COMPLEX TO BE DESCRIBED BELOW, ATTACH A SEPARATE SHEET THAT CLEARLY DESCRIBES THE MODIFICATION PROCEDURES Include a description of equipment, duration of procedure(s), temperatures, estimated moisture content, etc., as appropriate.
Followed the same procedures as on Part 7.A.Z
eh 7-36-14
CHECK ALL PROCEDURES USED TO PREVENT CONTAMINATION OF RESIDUE SAMPLES LUNCONTAMINATED GLOVES WORN AND CHANGED BETWEEN SAMPLES TREATMENTS WERE SAMPLED BY DIFFERENT PEOPLE PHYSICALLY SEPARATED TREATED AND UNTREATED SAMPLES CLEANED SAMPLING EQUIPMENT BETWEEN COLLECTIONS OF EACH TREATMENT
& OTHER, EXPLAIN: The mush room Knife was cleaned with soap
and water prior to sampling, between samples and after sampling
DESCRIBE HOLDING AND TRANSPORT OF SAMPLES FROM FIELD TO FREEZER (E.g. Sample bags placed in cooler with blue ice, then transported by pickup truck to research center for pitting. Following pit removal, sample bags were hand-carried to freezer.) The sumples were transported in a Cooler with cry ice in the back of a pickup truck to be data logger Extra-6 was placed on top of samples at the top of the Cooler. The samples in the back of a pickup truck were transported to the freezer room and placed into IR-4 TRT Chest freezer when samples placed into freezer the samples were partially frozen since they over 13 contact with the dry ice ABOVE DATA ENTERED BY: David Contact with the dry ice

PART 7 PAGE 7

Trial Year 2014



FIELD ID NO: ______ Ennes IR-4 FIELD DATA BOOK

PART 7. SAMPLE COLLECTION AND STORAGE

B. SPECIFIC SAMPLE INFORMATION AND INVENTORY

INSTRUCTIONS: Complete this form or provide equivalent information. USE A SEPARATE PAGE FOR EACH SAMPLE DATE. Enter the date the individual samples were collected (do not enter the harvest date when this date is different from sample date), the sample ID (see protocol Section 18 for Sample ID code), a brief description of the crop part sampled (e.g. turnip roots, turnip tops, tomato fruit, corn forage etc.,), the weight of the sample, the approximate time of day of completion of each sample collection—i.e., sample placed in sample bag following any modifications (e.g., 10:15 a.m.), the approximate time of day that each sample was placed in a freezer, the approximate time interval between completion of collection of each sample (placement of the sample in sample bag) and the placement of the sample in freezer (e.g., 45 minutes), the identification code of the freezer where the samples are stored, and the initials of the person providing the above information and the date it is entered on this form.

SAMPLE COLLECTION DATE: 7-30-14 7-30-14 APPROXIMATE APPROXIMATE APPROXIMATE 0 TIME OF DAY OF TIME OF DAY ELAPSED TIME WEIGHT COMPLETION OF THAT SAMPLE TO FREEZER **CROP** SAMPLE (INCLUDE SAMPLE WAS PLACED FROM SAMPLE FREEZER INITIALS & **FRACTION** COLLECTION UNITS) IN FREEZER COLLECTION DATE 9489461 12:40 PM 4hr 52min mushroom 4hr 34min 8:06 Am 12:40 Pm 45896 90 127-30-14 * See Protocol Section 18 for assigned Sample ID code Was a GLP-maintained scale used to determine weight of residue samples? YES NO L

CROP DESTRUCT: Please describe in Part 5I of this Field Data Book how the (leftover) treated crop has been destroyed or handled in such a way that it cannot be consumed as a human food or animal feed.

ABOVE DATA ENTERED BY:

PART 7 PAGE 9

Trial Year 2014

O wied monterey mushroom scale SN 112248

Scale any weighs in grams of 7-30-14

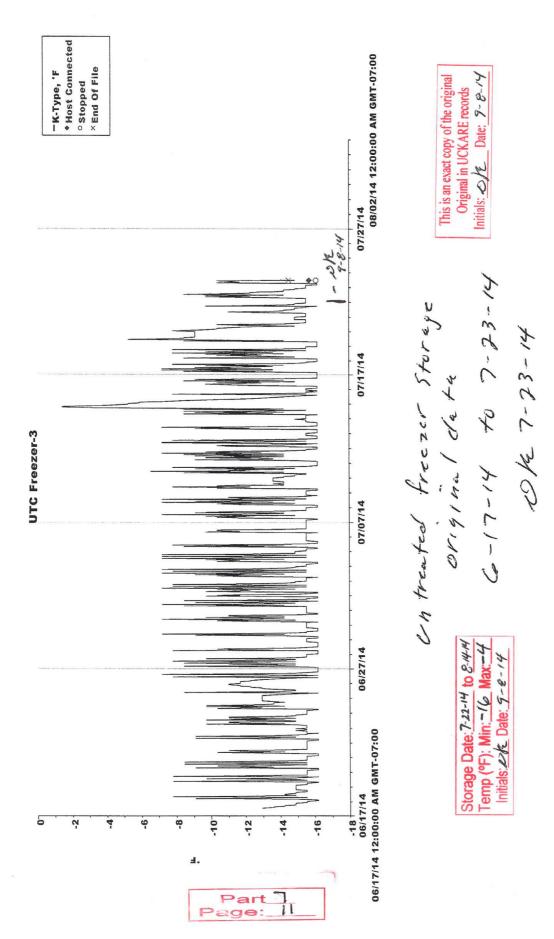
FIELD ID NO: Enne IR-4 FIELD DATA BOOK

PART 7. SAMPLE COLLECTION AND STORAGE

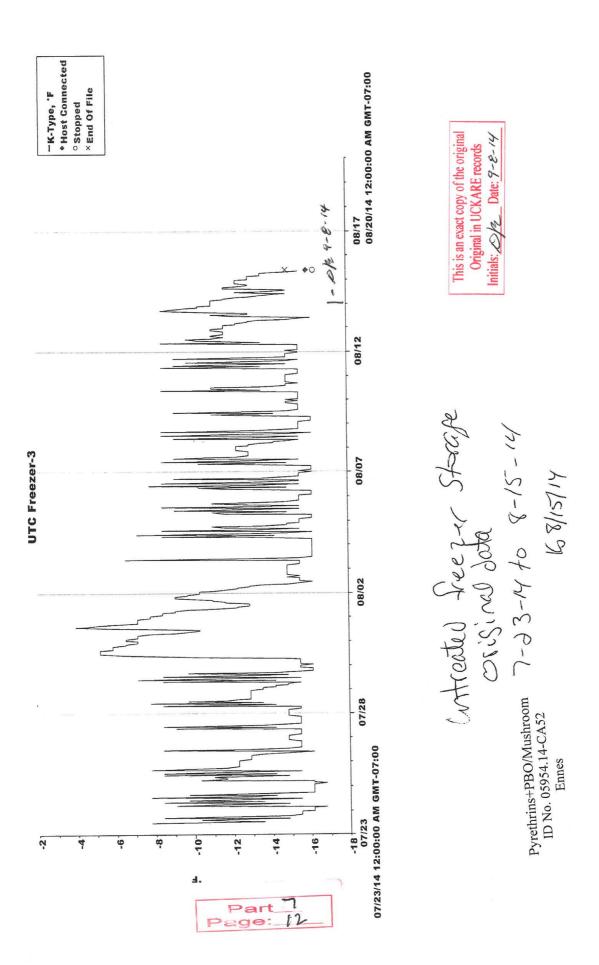
C. FREEZER TEMPERATURE LOG

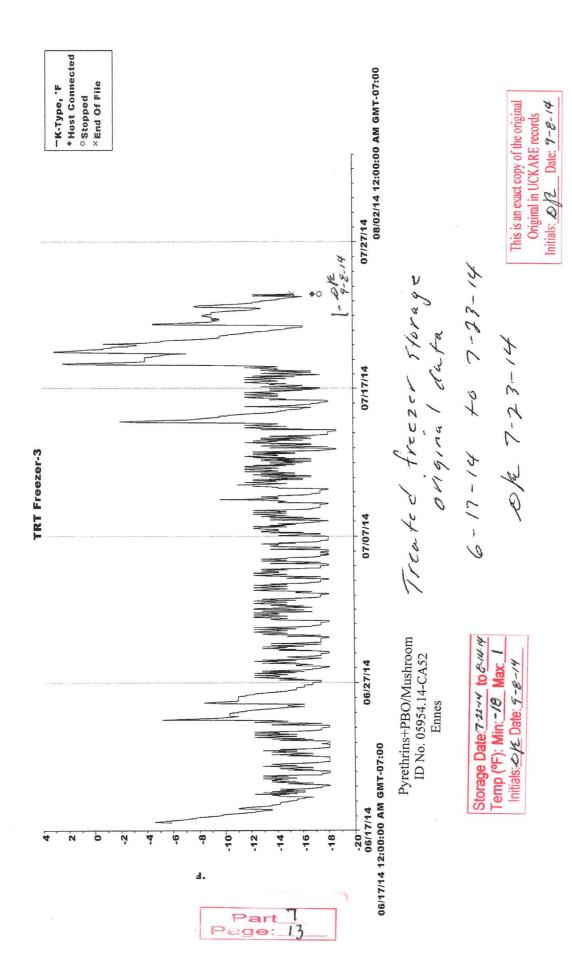
INSTRUCTIONS: Use this (or an equivalent) form when freezer temperatures are taken manually. For each day that temperatures are taken, directly record the date, the minimum and maximum temperature, the degree units (°F or °C), and provide the initials of the person entering the data. Photocopy this form if space for more freezer records is needed. When temperature records are monitored automatically, the original or certified true copy of the output (disk from data logger, computer printout, etc.) must be placed in this Field Data Book.

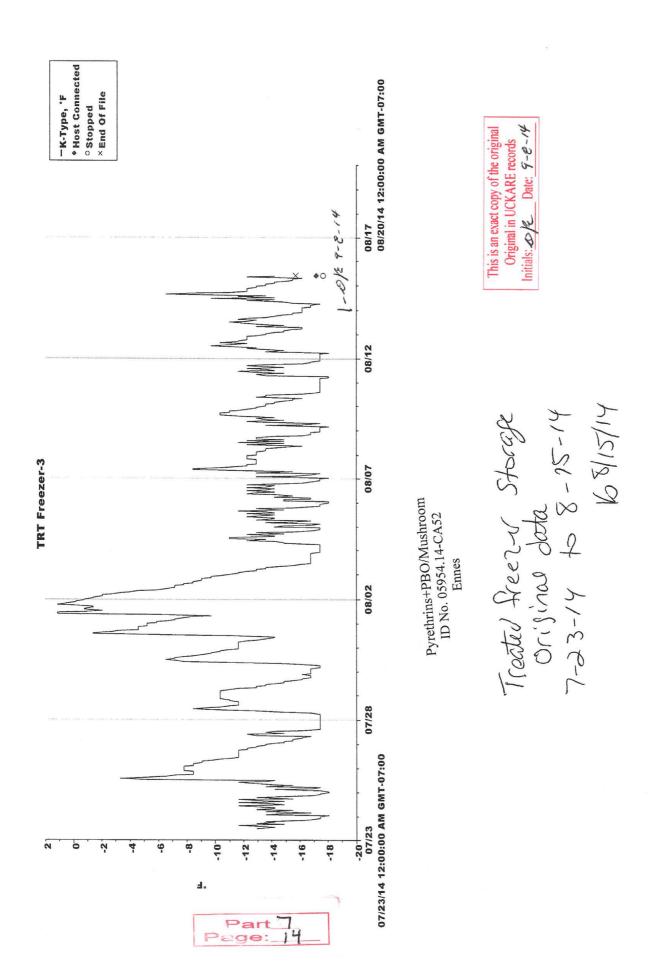
temperati computer	ire records are n printout, etc.) m	nonitored auto ust be placed	matically, the in this Field L	Oata Book.				
UNIQUE	IDENTIFIER F ezer ID—may be IDENTIFIER F ezer Temperatur	OR FREEZER	: IR-4	chest	freeze	rs utc	and T	pT_
Enter Fre	ezer ID—may be	e make/model/.	serial# or ass	igned identifier			rc freez	cr-3
UNIQUE	IDENTIFIER F	OR FREEZER	R TEMPERA	TURE RECORI	DER: 110 60	ID. TI	et freez	er-3
Enter Fre	ezer Temperatui	e Recorder ID)—may be ma	ke/model/serial	# or assigned	identifier.	OK	9-8-14
DATE	TEMP MIN/MAX	INITIALS	DATE	TEMP. MIN/MAX	INITIALS	DATE	TEMP MIN/MAX	INITIALS
			Refer	to the	L. Anni	nu Pr	9-5	
-		-	Nº 101	.06	followi	119/00	1	
				9-8-14				
				101				
	_		-					
				-				
		-					-	
						-		-
							-	
						-		
	Unless otherv	vise noted ir	the table a	bove, all tem	perature un	its are in (C	Check one):	
	°C	°F_		Op.	(Initials)_9	-8-14		(Date)
			PART	7 PAGE 10	-		Trial Yea	r 2014
	TE IF APPROPR			E COPY OF THE		·····	DATE	
THE ORI	GINAL IS IN IR-	4 FIELD DATA	BOOK NO.		INITIALS	J	DATE	



Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes







FI	FΙ	D	TI	1 (10	
		-		- 1	\sim	

Ennes

IR-4 FIELD DATA BOOK

PART 7. SAMPLE COLLECTION AND STORAGE

D. FREEZER CONTENTS LOG

INSTRUCTIONS: Use this (or an equivalent) form to record the movement of residue samples in and out of the freezer. Note the trial ID # (e.g., 06788.99-CA45), "contents" (e.g. treated peppers), the day and time it entered the freezer and the initials of the person putting the samples into the freezer. Also note the date and time the same samples are removed from the freezer and the initials of the person removing the samples from the freezer.

UNIQUE IDENTI Enter Freezer ID–	FIER FOR FREEZER:	R-4 Chest for assigned identifier.	rezers	UTC and	TET 9-8-14
TRIAL ID#	CONTENTS	DAY/TIME IN	INITIALS	DAY/TIME OUT	INITIALS
TRIAL ID#	CONTENTS	DAT/TIVIL IIV	INTIALS	DATITIVE COT	INTIMES
	Refer to 1	the following Pa	423		
	O/29-8-	the following pa			
				ļ	
			1		

	PART 7 PAGI	E <u>15</u>	Trial Year 2	2014
COMPLETE IF APPROPRIATE:	THIS IS A TRUE COPY O	F THE ORIGINAL"		
THE ORIGINAL IS IN IR-4 FIELD DA	TA BOOK NO.	INITIALS	DATE	and the second

RESIDUE SAMPLE FROZEN STORAGE LOG

Chest Freezer (UTC)

Model #: 253.13009100

Original in UCKARE records Initials: 18 Pe-14 This is an exact copy of the original

	LOCATION: Kearney Agricultural Research and Extension	ney Agricultural R	esearch and Exten	sion				
	Date/Time		Sample	Sampling	No. of	Stored	Date/Time	Removed
	Stored	Study No.	Type	Interval	Bags/Sample ID	By	Removed	By
	4-23-14 8:48 Am	11256.14-0163	Strawberry Fruit	20MA	2 A,B	OK	5-5-14	OR
	5/19/19 Am	A2659.14-1201	Carl Cetter C	32 DAG	BA,B	9	69:30 Am	2
	5-22-14 9:25-AM	11311-14-CA108	Cherry	43 Direk 2	2 H.B	OR		
	5-22-14 9:254m	11311.14-64109	cherry Fruit	430MA 2 A,B	24,3	.ok		
		0934.14-CAYK	Blackberries	10044	2 MB	2	\	->
(6-4-14 Rm	11304.14-6all	Reach	1 DAG	2 A B	2	MSSP X 0	0
3	10-10-0	110001120511	Con li	2000				
F	8	-	Black bassis		2 AB	2	6-16-14 6-16-14	2
Pac			Black Berilius @	Rose	2 Ans	2		>
art je:	6-16-14 63:05 pm	11315.14.CA36	grange.	310ALA	2 4, 3	30	7-10-149:55An	2
76	6-18-14	11263.14-49115	Blackbardes	(DALA	2 A,B	B)	
	(6-25-16 Br	11979- 41.Pre11	Blackberges	1 DAGS	3 A,B	2	\rightarrow	\rightarrow
	No. 2	1113814-CA9B	Orange Fruit	ODALA	2 4,13	OR	7-21-14 3.50 /m	OK
	719-14	AAFE14-053R-	Tomerto Fruit	i DALA	2 A13	S. S	8-4-14 11:50 Am	8 hr
	12-22-14	05954.14-0452	mosproom	2 De 45	2 A, B	NO	8-14-19	OR
				1777				

OFATS SCIOL 16 16-16-14 OFATS STON 16 WORTH 3 WINS FIN NUMBER. 16 9/3/4

RESIDUE SAMPLE FROZEN STORAGE LOG

Chest Freezer (TRT)

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

Model #: 253.16582103

This is an exact copy of the original Original in UCKARE records Initials: A Date: 9-6-14

LOCATION: Kearney Agricultural Research and Extension

LOCATION: Near ney Agricultura at tyskur en and targen	ley Agileultul al IN	Sent of mind					
Dete/Time		Sample	Sampling	No. of	Stored	Date/Time	Removed
Stored	Study No.	Type	Interval	Bags/ Sample ID	By	Removed	By
6-10-14	11204 14-1911	Gal.	なべて	149¢	1	9:55AM	2
(20)-11 9/01 (C) (C) (C) (C) (C)	(7 6)-101 BY BY	Blackbries	OLD DAVA 3 CAD	3 C40	2	9,00 Am	2
6-16-14 3:05	11315-14-CA36	orange Fruit	31DALA 4 E, F	4 5,6	øk.	9:55 Am	2
	11304.14-CAUL	Pech	MONA SI	DITE	2		
10-18-14- AM 11363.14-10115 PACK BELIEBS	11263.14-A115	BRUKBERIES	1 Dars & C,0	0,0 p	2		
11167- 71.405 11 mapp. 1/2-46-0)	111307-71.40511		DIDAMA OK,L	JX'C	2		
6-2514 CAN MANA, 14-CAYO BACK DEN'ES	PVA)-41,PCE11		1 DAGA	1 DAGA 3 C.D	2		
71-54-5	1/315-14-CA36	Sunto	40 DALA	40 DALA 2 M, N	8/h	7	->
41-14-1	11139.14-0198	Grange Fruit	ODACA	0 DALA 2 C, D	OK	7-21-14 3.50pm	8kg
41-03/-1	AAFC14-053R-	Jonato Freit	ODALA 4 6, K	4 6,14	2k	11.50 Am - 12.05Pm	2 hr
71-61-14	AM 1-0 14-0538-	Town to	1 DACA 4	4 5,6	OK	,	
41-18-1	AA FC14-0530-		3 DALA 4 5,7	4 I'S	OR		>
4-22-1	03954.14-CASZ	mush room	2 Day S-W Z	7 65	20	- 610-40AM	d'en
7-25-14 12:28.0m	AAFC14-0538-	Forit	7 DALA	7 DALA 4 6,5	Oh		
7-38-67	PAFC 14-0538-	Tomate	TO DATA OF	5×	2		\rightarrow
7000		7	200 200 20	111 or a da 200 5	(S) E(1)	SIGNATURE AND LONGER	かる

11/5/6/2 SIA. DIS RITER (Entry Error meshrooms not shipped on 8-4-14 DR 8-13-14

This is an exact copy of the original Date: 9-6-14 Original in UCKARE records Initials: 26 / Date: 9-6-19

RESIDUE SAMPLE FROZEN STORAGE LOG

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

Ennes

Chest Freezer (TRT) Model #: 253.16582103

O EE OK 7-31-14

	LOCATION: Kearney Agricultural Research and Extension	ney Agricultural R	esearch and Exten	sion				
	Doto/Time		Samule	Samuling	No. of	Stored	Date/Time	Removed
	Stored	Study No.	Type	Interval	Bags/	Ву	Removed	By
		•			Sample ID			
	1-02-1	11379.14-1989	onion Bulb	COMP	3 6,H	2	8-14-14 10:40 Am	Sh
	3	Ver-0190-11340	onim lalles	6 DALP	3 C,D	2	8-14-14 10:40 Am	ak
		15 4 54-CA72	mishroom	2 0445	7 66	OK	to: 40 + 10/	LOK
	74	11342.14-CASS		14 1	20,0	Ø/E	8-14-14 10:46 Am	10 K
	7-31-14 11:5-4 Mm	11342,14-CASP	`	14 00	XON	OR	10-14-14 10-40 Am	Oh
		11304.14 CALA	Record T	3,044	20,0	1	my 05:01	OR
Pa	2	AAFC14-053R-13)	Tometo	14 DALA	40,07	OK	11:50 Am - 17:05 Pm	&
art_		ESULPILIZZON		20ays	2 60,	2		
7	,	11342.14-CASY		140414	4 1	2/8	10:40 Am	& K
	Sam	11309-14-6289	CONÍSO	14 DACA	T. T.3	7	8-14-14	るれ
		0595414-CA53	mushroem	2 0445	2 60	2/8	OK 9-12	111
	11-61-8 11-61-8	8112-11-8501	Groves (2-14am	300	10		
	3	81147-41.6201	(J. 10) eS	Harre	エ	2		
(11199.14 JAYA	Alens Aid	1 Dara	1 P	2		
9 (42-19-143:00 m 11195.14-101-80	Mrs - 6,35 111	Plums Wo Pits	1 Corre	1	2		
(D)	20 17+13 Ela. 10 8/2-14 (3/24/2 2/12. 16	D 6-18-19 C	Dent of across 16) WK1/8 "	y coto estr	24. P	from f	

Page: 10

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 7. SAMPLE COLLECTION AND STORAGE

E. FREEZER MAINTENANCE AND REPAIR LOG

INSTRUCTIONS: Complete this form or provide equivalent information. Provide dates and a brief description of maintenance and repair work completed on the freezers relevant to this trial. Be sure to date and initial all entries.

UNIQUE IDENTIFIER FOR FREEZER: Th-4 chest freezers UTC and thT

Enter Freezer ID—may be make/model/serial# or assigned identifier.

10/29-8-14

RECORD DATES AND BRIEF DESCRIPTION OF ANY CALIBRATION, MAINTENANCE AND REPAIR WORK DONE ON FREEZER.

ALSO RECORD SOP#	FOLLO	WED, IF APPI	CICABLE: SOP# CC KARE 60-2.4 OR 9-8-14
Initials and Date	Was Ma Repair (Check	aintenance or routine?	
Illitials and Date	Routine	Non-Routine	Bosciption
			4
T			Refer to the following pages
			10/4 9-8-14
	•3		
		, si	

	PART 7 PAGE 19	Trial Year 2014
COMPLETE IF APPROPRIATE: "THI	S IS A TRUE COPY OF THE ORIGINAL"	
THE ORIGINAL IS IN IR-4 FIELD DATA	BOOK NO INITIALS _	DATE

EQUIPMENT NAME:

IR-4 Chest Freezer (UTC) Model #: 253.13009100

MAINTENANCE & REPAIR LOG	
Date: 122/14	Initials:
Description of Routine Maintenance or Repair: The fee The Feezer Could be Cleaned.	ezer was shut of for deicing so
Performed By:	Date Performed: 43/14
Were SOPs Followed: $\bigvee e >$	SOP No. 60-2, 3
1. Date mal-function discovered:	Original in UCKARE records Initials: DR Date: 7-8-14
How was mal-function discovered: 2. How was mal-function discovered:	
3. Remedial action taken:	
Date: 1/23/14	Initials:
Description of Routine Maintenance or Repair: The See with SOGP and water after oraining	ver interior and exterior was cleared water from feezer. After
clearing the freezer was turned	back on.
Performed By:	Date Performed: 1/23/14
Were SOPs Followed: Ve S	SOP No. 60-2,3
IF NON-ROUTINE REPAIR: 1. Date mal-function discovered: 2. How was mal-function discovered:	Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes
3. Remedial action taken:	
Date:	Initials:
Description of Routine Maintenance or Repair:	E-14
Performed By:	Date Performed:
Were SOPs Followed:	SOP No.
IF NON-ROUTINE REPAIR:	
Date mal-function discovered:	
2. How was mal-function discovered:	Part_7 Page: 10
3. Remedial action taken:	

EQUIPMENT NAME:

IR-4 Chest Freezer (TRT) Model #: 253.16582103

MAINTENANCE & REPAIR LOG	
Date: 1/22/14	Initials:
Description of Routine Maintenance or Repair: The feele The freezer Could be chosed.	r was shut off for deiling so
Performed By:	Date Performed: 120/14
Were SOPs Followed: (125	SOP No. 60-213
IF NON-ROUTINE REPAIR: 1. Date mal-function discovered: 2. How was mal-function discovered:	This is an exact copy of the original Original in UCKARE records Initials: Date: 9-8-14
3. Remedial action taken:	
Date: 1/23/14 Description of Routine Maintenance or Repair: The fee with Socp and water after draining the feezer was turned back on.	water from freezer. After cleaning
Performed By:	Date Performed:
Were SOPs Followed: YeS	SOP No. 60-2, 3
IF NON-ROUTINE REPAIR: 1. Date mal-function discovered: 2. How was mal-function discovered: 3. Remedial action taken:	Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes
Date:	Initials:
Description of Routine Maintenance or Repair:	7-14
Performed By:	Date Performed:
Were SOPs Followed:	SQP No.

IF NON-ROUTINE REPAIR:

- 1. Date mal-function discovered:
- 2. How was mal-function discovered:

3. Remedial action taken:

Part 1

Sample Shipping Part 8

FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 8. RESIDUE SAMPLE SHIPPING

A. RESIDUE SAMPLE SHIPPING INFORMATION

INSTRUCTIONS: Complete this form for each sample shipment. Fax, mail, or email a true copy to the Study Director and to your Regional Field Coordinator (along with 8B). Retain the original in the Field Data Book.

WERE SAMPLES KEPT FROZEN¹ FROM SAMPLE COLLECTION DATE TO SHIPMENT? (Check one) YES NO
"Kept frozen" indicates storage at temperatures generally <0 °F (-18 °C).
IF NO, PLEASE EXPLAIN: DR 8-14-14
DATE RESIDUE SAMPLES PACKAGED: 8-14-14 TIME: 10:40 AM X PM (Check one)
DESCRIBE PROCEDURES UTILIZED TO PACKAGE SAMPLES:
The intreated sunples were placed into box lot ?
The untreated sumples were placed into box lof 2 and the treated sumples placed into box 20f2.
The hids of the botes were then taped shot with
Clear shipping tape.
METHOD OF SHIPMENT (Check one) OVERNIGHT AIR EXPRESS FREEZER TRUCK OTHER (Describe): OTHER (Describe):
DATE SAMPLES GIVEN TO CARRIER: $8-14-14$ TIME: 10.55 AM X PM (Check one)
NAME OF CARRIER ACDS
Were the Chain of Custody Form (8B) and the Sample Arrival Check Sheet (8C) sent with the samples? YESNO
INSERT THE ORIGINAL OR VERIFIED TRUE COPY OF THE BILL OF LADING (WAY BILL) INTO THIS FIELD DATA BOOK AFTER THIS PAGE
(WAY BILL) INTO THIS FIELD DATA BOOK AFTER THIS PAGE SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Magain Bout wright
(WAY BILL) INTO THIS FIELD DATA BOOK AFTER THIS PAGE SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Magain Bout wright Golden Pacific Laboratorie
(WAY BILL) INTO THIS FIELD DATA BOOK AFTER THIS PAGE SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Magain Bout wright Golden Pacific Laboratorie
(WAY BILL) INTO THIS FIELD DATA BOOK AFTER THIS PAGE SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Magan Boat wright Golden Pacific Laboratorie 4720 W. Jennifer Ave Svite 105
(WAY BILL) INTO THIS FIELD DATA BOOK AFTER THIS PAGE SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Magain Bout wright Galden Pacific Laboratorie
(WAY BILL) INTO THIS FIELD DATA BOOK AFTER THIS PAGE SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Mcgan Boat wright Golden Pacific Laboratorie 4720 W. Sennifer Ave Svite 105 Fresho, CA 93722
SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): May Bill) INTO THIS FIELD DATA BOOK AFTER THIS PAGE SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Magan Boat wright Golden Pacific Laboratorie 4720 W. Sennifer Ave Svite 105 Fresho, cA 93722 NAME OF PERSON CONTACTED AT LAB REGARDING SHIPMENT: Megan Boat wright DATE OF CONTACT: 8-14-14 TIME: 11:05 AM X PM (Check one)
(WAY BILL) INTO THIS FIELD DATA BOOK AFTER THIS PAGE SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Magan Bout wright Golden Pacific Laboratorie 4720 W. Jennifer Ave Svite 105 Fresho, CA 93722 NAME OF PERSON CONTACTED AT LAB REGARDING SHIPMENT: Megan Boat wright
SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Magan Boat wright Golden Pacific Laboratorie 4720 W Sennifer Ave Suite 105 Fresno, CA 93722 NAME OF PERSON CONTACTED AT LAB REGARDING SHIPMENT: Megan Boat wright DATE OF CONTACT: 8-14-14 TIME: 11:05 AM X PM (Check one) METHOD OF CONTACT (e.g., telephone): Telefax ABOVE DATA ENTERED BY: Date: 8-14-14 PART 8 PAGE 1 Trial Year 2014
SHIPPING ADDRESS (include the name of the person to whom the samples are being sent): Magan Boat wright Golden Pacific Laboratorie 4720 W. Jennifer Ave Svite 105 Fresho; CA 93722 NAME OF PERSON CONTACTED AT LAB REGARDING SHIPMENT: Megan Boat wright DATE OF CONTACT: 2-14-14 TIME: 11:05 AM X PM (Check one) METHOD OF CONTACT (e.g., telephone): Telefax ABOVE DATA ENTERED BY: Date: 2-14-14

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - NOT NEGOTIABLE

THIS MEMORANDUM is an acknowledgement that a Bill of lading has been issued and is not the original Bill of Lading nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

RECEIVED, subject to the classifications and tariffs in effect on the date of of receipt by the carrier of the property described in the Original Bill of Lading.

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight. Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof if this is a rail or a rail-water shipment or (2) in the applicable motor carrier classification or tarriff this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading set forth in the classification or tarriff which governs the transportation of the shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

FIVIN: DE A	carney Agricultural	Resd Phone: (559) 646-60	061		
Address: 72	46 Just A Riverben	e Ave Bill To: * BECKY > 1500	IN-4 program	1013	7667
City: Par 1	State	Part Services, Inc. (A.C.D.S., Inc.)	Snipper's Bill C		1001
Carrier: Agric	ultural Chemicals Developm	nent Services, Inc. (A.C.D.S., Inc.)	Consignee's H	Reference/PO No e (SCAC) AGCM	
Consigned to	Megan Boot wrigh	to to Calden Pacific hab	Phone: (559) 275	- 90 91	
Consigned to _	4720 W. Jen	nifer Auc	Filone.		CA
Destination Stre	et Suite 105	City:	Fresho	State: <u>9</u>	3722
Delivering Carri	Agri. Chem. Dev. Serv., Inc. (A.	.C.D.S., Inc.) (Phone: 315-548-8612)	Truck/	Frailer No. 20	0
Additional Shipr	nent Information (Best Way)		·		
BOX NO.		DESCRIPTION / CONTENTS		The state of the s	EIGHT CHARGE**
10f2	5,4	ples A, B		(Subject to Corrections)	
20f2	Sam	ples CF, DF, EF,	FF	11 165	
) no	product produc		12.23	
				-	
		Pyrethrins+PBO/Mushroon	n		
	-5	ID No. 05954.14-CA52			
		Ennes			
		*		1	
		<u>(2)</u>			
	<u> </u>			-	
TOTAL 7					
TOTAL PIECES Z	252-4111	. 2. // 100			
Project No ACDS Transfe	and the same of th	2 Pyrethrins + PBo.	MUSHrocm	6	
ACDS Hallsie	Date: ,		-	Part 5	1
Delivery Date:	Received	d Bv:	 ** Freight charge to carrier's published 	o be billed after delive ed and/or amended ra	ery as per ates.
Jointon's Dutton					
Notify if problem e	nroute or at delivery	Name	Fax No. Tel No.		onal purpose only)
Eroight Dill	To:	Ivaille	Fax No. Tel No.	5.	2
Freight Bill	Company Name	Street	City	State	Zip
Shipper	laveil Em	Carrier		8-14-	
	Per	Per		Date	
Section 10 to the land and the land	S CORRECTLY DESCRIBED CORREC	CT WEIGHT ISLBS.			
No. C0603	Copyright © 5/06	Reorder from Trans Products	1-800-367-9100	PO Box 898 Milford	J. DE 19963

PO Box 898 Milford, DE 19963

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 8. RESIDUE SAMPLE SHIPPING

D	DECIDITE	CAMPLE	CHAIN (OF CUIS	TODY FOR	M

B. KESID	UE SAMPLE CHAIN OF	COSTOD	I FURIVI				
trial are go copy to the TEST SUB	TIONS: Complete this form ing to different destination Study Director and to you STANCE Pyrc t	ons. Place our Regiona hrins	a true copy withing Field Coording + PBO	in each shippir	ng container	and fax, mail,	or email a true
CPOP /	Mushraam (butt	011)				
inciuae pro	nocoi-specifiea informati	on such as s	our or sweet, sm	all-fruited or l	arge-fruited,	processing var	riety, if applicable.
FIELD RE	SEARCH DIRECTOR_	DAVID	Ennes				
PHONE#_	(559) 646-6	6061	FA	X# (559)) 646-	6015	
TRIALIO	CATION Munter	cy MI	Shroom	Wat	SOMUIlle	1,014	
NUMBER	OF BOXES SHIPPED_	2	TOTAL NUM	MBER OF SAN	IPLES SHIP	PED_	
DESTINA'	OF BOXES SHIPPED TION (do not enter more	than one de	stination) Gol	den Paci	fic La	b. Fre	sno, CA
CARRIER	ACDS #	1370	667				
Sample		No. of	Date of Last	Date	Date	Crop	LAB ID
ID ¹	Treatment/Rate ²	Applies.	Application	Harvested	Sampled	Fraction ³	(Lab Use only)
A	TRTOI UTC	0	None	7-22-14	7-22-14	mush room	DR
B	TRTOI UTC	0	None				9-11-14
CF	296m1/10000ft3	5	7-20-14				
DF		5	7-20-14	1	1		
EF		6	7-28-14	7-30-14	7-30-14		
FF		6	7-28-14	7-30-14	7-30-14	V	
			Ph	8-14-14			\
¹ See protocol for assigned ID code under Section 18, Sample ID column							
² Use the re	ate of the last application	if different	applications had	different rates	assigned by	the protocol.	If there are two
active ingr	redients (a.i.) in the test s	ubstance, er	nter the rate of th	e a.i. that is to	be analyzed	for that sample	
	straw, processed apple j	uice	-0C			ATE: &- 19	4-14
ABOVE D	ATA ENTERED BY: 🔏	100	ee e		D	AIE:	
*******	*********	P.	************ ART 8 PAGE	<u>.</u> 3_	******	Trial	Year 2014
	E IF APPROPRIATE:		TRUE COPY OF		 L" LS	DATE	
THE ORIG	ILVAL IS IN IK-4 FIELD D	AIA BOOK	1.0.				

TR-4 PROJECT	PART 8C: SAMPLE A	ARRIVA	L CHECK SHEET			
each of the s received back insert the fo	Note to Field or Processing Personnel: Place a copy of this blank form inside each of the sample boxes before shipment. If a copy of the completed form is received back from the laboratory prior to completion of the Field Data Book, then insert the form in the appropriate area of Part 8.					
This form should be completed by the Laboratory Personnel, unless a similar form kept at the laboratory is used instead. Complete all blanks in this form that apply to these samples. Keep this form and any accompanying shipping forms, such as Federal Express receipts and field cooperator's residue sample shipping forms, in the raw data file for this study. Mail, fax, or e-mail a copy to the Field Research Director, the Regional Field Coordinator and the Study Director. If multiple boxes from one trial are received, each with a copy of this form, then it is only necessary to complete one form for all of the samples.						
	# (from Protocol Part 2	24 or	*****			
Chemical:	TH 15	3737 \	Commodity:			
	D# (format is 00000.YY-					
Shipper: [2553	[]Other:	# Boxes:		
onipping References.						
Date Received: Rec'd by (print name):						
A. CONDITION OF SAMPLES (check all that apply)						
[]Frozen	[]Dry Ice Present	[]	Fresh, Never Frozen			
[]Thawed	[]Sample Bags Intact	[]:	Sample Bags Not Intact a	and Contents Mixed		
B. FORM OF SAMPLES AS RECEIVED Matrax (e.g., roots, leaves):						
[] Whole [] Halved or Quartered [] Sliced [] Other:						
C. RESIDUE SAMPLE CHAIN OF CUSTODY FORM Received with Samples: [] Yes [] No						
Please note any apparent missing samples or protocol deviations in Section E.						
D. SAMPLE LOG Project Listed on the Laboratory's Master Schedule: []Yes []No						
Lab Numbers Assigned: Date:						
E. COMMENTS:			,			
Signature/Date of person filling out this form:						

 $\begin{array}{c} \text{PART 8 PAGE } \underline{\textbf{4}} \\ \text{(Paginate if a copy of the completed form is received from the analytical laboratory.)} \end{array}$

This is an exact copy of the original

IR-4 PROJECT	PART 8C: SAMPLE ARRIVA	L CHECK SHEET				
Note to Field or Processing Personnel: Place a copy of this blank form inside each of the sample boxes before shipment. If a copy of the completed form is received back from the laboratory prior to completion of the Field Data Book, then insert the form in the appropriate area of Part 8. This form should be completed by the Laboratory Personnel, unless a similar form kept at the laboratory is used instead. Complete all blanks in this form that apply to these samples. Keep this form and any accompanying shipping forms, such as Federal Express receipts and field cooperator's residue sample shipping forms, in the raw data file for this study. Mail, fax, or e-mail a copy to the Field Research Director, the Regional Field Coordinator and the Study Director. If multiple boxes from one trial are received, each with a copy of this form, then it is only necessary to complete one form for all of the samples.						
		amendment): 05954 14-6/R-0				
Chemical: Pyrethrin	5 + PRO	Commodity: Mushroom (white button and Cyster)				
	ormat is 00000.YY-XX##)					
Shipper: []ACDS	[]Federal Express					
Shipping Reference		# Boxes: Z				
Date Received: 08/14/14 2:00Pm Rec'd by (print name): Todd Neumille						
A. CONDITION OF SAMPLES (check all that apply)						
[]Frozen []Dry Ice Present []Fresh, Never Frozen						
[]Thawed []Sample Bags Intact []Sample Bags Not Intact and Contents Mixed						
B. FORM OF SAMPLES AS RECEIVED Matrix (e.g., roots, leaves): Buffons						
[-] Whole [] Halved or Quartered [] Sliced [] Other:						
C. RESIDUE SAMPLE CHAIN OF CUSTODY FORM Received with Samples: [Yes [] No						
Please note any apparent missing samples or protocol deviations in Section E.						
D. SAMPLE LOG Project Listed on the Laboratory's Master Schedule: []Yes []No						
Lab Numbers assigned when analyzed to place Date: 08/22/14 Assigned: in Set. We don't reparse samples into						
01	E. COMMENTS: Received G5 an c-mail attachment ON 8-22-14 OK 8-22-14					
	person filling out thi	s form:				

Meteorological Part 9

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

FIELD ID NO:

Ennes

IR-4 FIELD DATA BOOK

PART 9. WEATHER AND IRRIGATION RECORDS

A. DAILY FIELD TRIAL WEATHER RECORDS

INSTRUCTIONS: Document field trial weather records by manually collecting information or by providing computer generated records. Weather records are required from planting of annual crops or for a minimum of one month prior to the first application onto perennial crops, until last residue sample collection. Weather records that are collected manually must be recorded directly on this (or equivalent) forms daily. Document computer generated weather data by placing the original or true copy of the data printout directly behind this page. Whether manually recorded or computer-generated, please indicate the approximate time of day that weather data were collected. Be sure to date and initial all entries.

MONTH June - 10/4 2014

			MONTH Jo	nc-July	2014		
Date/Initials	Air Temp. Min/Max	Rainfall	Irrigation	Date/Initials	Air Temp. Min/Max	Rainfall	Irrigation
1/				17/			
2/				18/			
3/		Refer	to the	19/ follow 120/ data	ing Mon	terey	
4/			mushroo	1201 data	Sheets		
5/			NE	21/9-11-14			
6/				22/			
7/				23/			
8/				24/			
9/				25/			
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15/				31/		and the second second	
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TEMPERATUR	RE UNITS: °F	✓ °C	(Check one)	MOISTURE UN	NITS: CM	DR 9-1	2-14 _ (Check on
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Provide the loca meteorological	ation (nearest to data are obtaine	wn) and affili ed.	ation (on-site, N	WERE COLLECT The ficte Non fercy OAA, state, etc.)	oj ine weainer s	idition(s) from	e inside
		0.	:06.				-11-14

ABOVE DATA ENTERED BY: Daviel Europe	DATE: 9-11-14
PART 9 PAGE	Trial Year 2014
Total number of pages in this section at initial pagination:	
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO INITIALS	DATE

E. Air temperature bed temperatures Orop and Room number AM PM In-hi In-hi AM PM AM PM AM PM 172 74 76 754 1 183 1524 546 99% 76 77 174 74 86 89 89 183 1524 546 99% 76 77 175 76 71 06 80 86 183 674 77 176 77 1 06 89 89 184 185 172 176 76 176 80 80 80 80 80 80 80 80 80 80 80 80 80
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Part 9 Page: 2

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Crop and Room number 1425 B. Auth	준		99%	8013,99%	1/46/1	1.86491	2666	Ros	1.66	366	266	1.66	1.66	941	366	1.66	991	6.6	7.66	
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ciplion:	alure	lo-hi	-	74/85/6930	162/1	8L 58/8L			-	0	E88 89/h9	Eaf 49/43	154/L6 850	c4/68 813	88 - 1183	61111	9011	P77/1619	-	13
Tental	bed lemperature	lo-hi la	78/83	18/86	48/66		t fight	1886		Z.	ng 89/50	4/67 64	494	ر الإد	3	4	14/10	76 73	182 75/82	1
Experi	Air temperature	P.W.	45	14	12	12/2	175	1++	10.18	3	29	9 +79	9 79	63 14	66 6	66 67	19 19	الا ال	15 PS	776
ile.		AM	75	72	73	73+	2 6	77	18	B	62	129	25	20	63	3	99	20	es es	,
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Part 9 Page: 3

09/09	1/201		12:3		83:	1728	8385					Α	MYCE	EL SF	PAWN	MATE	R&D				F	PAGE	03
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1019-11-14		3	COMMENTS		7475	* TOTAL	32/26	The War			75/25	18/2	75 Kg		onjua								
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INTERMEDIATE	escription:	evelymen	bed temperature	lo-hi	11/17	74/69					12/29	68/22	19/29			alfra	21-Jol	21/12	/				
	Experimental Description:	leve	bed tem	in-oi	12/19	60/2/		7.5	21/2	15/19	htlot	24/37	04/2	89/59	61/68	19/69/191	7014	72/15	63/59				
	Exper	Z Z	Air temperature	2	20	उ	<u>و</u> د	9	2	3	\mathcal{Z}	3	63	123	63	67		839					
		`	Air tem	AM	2	3	É	3	B	77	153	63	23	63	63	440	22	40	63				
	CASING Date	h175	DATE		,	1/25		42/2	, ,	7/29	730	7/31	00	2/8	813	1-18	3/8	9/8	8/7	-			
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Part 9 Page: 4

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78703-	S	**	SET POINT	PM	76	5.2	ct	al.	120	89	97	S	65	مام	66W	049	(C)	69	71	3233			- Auoo	<i>b</i>
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ESTING FACILITY	Crop and Room number	1425A-PM	RH		1.96	9066.	997.	2066	4.4%	39%	1.66	99%	1.66	266	1.96	1.66	99	विदे	999	1.66		1	This is	of the state of th
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FAU		55		AM	١	5646	1269	6874	2/13	6629	5179 98	5101	4465	1325	5643 6258	5512	451515W	5326	1225941	5810		,		5) OR 108-15
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Nitrapyrin / Onion ID No. 11309.14-CA89 Ennes

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Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Part 9 Page: 6 original at monterey mushroom

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Initials Date

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Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Part 9 Page: 7 at Montered Mushroom his is an exact copy of the original

10 /h 8-15-14
Initials Date

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

FIELD ID NO: _

Ennes

IR-4 FIELD DATA BOOK

PART 9. WEATHER AND IRRIGATION RECORDS

B. ADDITIONAL METEOROLOGICAL INFORMATION
WERE THE TEST PLOTS IRRIGATED? (Check one) YES NO
TYPE OF IRRIGATION (e.g., drip, flood, overhead sprinkler) water hose or fogging of mosh room
IRRIGATION WATER SOURCE (e.g., canal, well) well well
There were no daily amounts determined since water is applied with a water hose or as a fag
er 9-11-14
IF IRRIGATION DATA ARE PLACED IN THIS FIELD DATA BOOK IN A SECTION OTHER THAN PART 9*,
INDICATE HERE THE PART AND PAGE NUMBERS WHERE THE DATA ARE FOUND: PARTPAGES
*Excluding the "first irrigation after application" entries in Part 6.
WAS WEATHER NORMAL? (Check one) YES NO Severe weather events such as damaging hail, hard frosts, tropical storms, excessive rain and unusually prolonged or high winds are cause for checking "no" above, even if such events are not considered unusual in the location of the trial.
INSTRUCTIONS: IF "NO" IS CHECKED, then assess the impact on the crop in the test plots for this trial of any unusual weather conditions. Note whether temperatures were unusually high or low, and whether precipitation was unusually heavy or light, during the growing season of the crop, and include the dates of unusual or severe weather events. Include the initials of the person making these notes along with the date the notes are recorded. The push room of were grown in a research lab
growing rooms at Monterey Mughroom, Watsonville, CA
The pushrooms were grown in a research 126 growing rooms at monterey Mushroom, ketsonville, CA Normal practices for propagating mushrooms pere
followed
19/2 9-11-14
ABOVE DATA ENTERED BY: Davie Energy DATE: 9-11-14
PART 9 PAGE 8 Trial Year 2014
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

Additional Info

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

FIELD ID NO: ____ Ennes

IR-4 FIELD DATA BOOK

PROTOCOL & PROTOCOL CHANGES

The protocol shall be inserted into this IR-4 Field Data Book after this protocol cover page. Sequentially insert all relevant protocol amendments and deviations that have been received from the Study Director. Protocol changes are sent only to those field trials to which they pertain, thus the changes that are received during the course of this trial may not comprise a complete set. Protocol changes pertinent to this trial that have been signed by the Study Director or received by the Field Research Director (FRD) after the Field Data Book has left the custody of the FRD do not need to be inserted into the Field Data Book.

PAGES IN THIS SECTION DO NOT NEED TO BE NUMBERED.

PAGES IN THIS SECTION DO NOT NEED LINING OUT IF NO ENTRIES ARE MADE

INSTRUCTIONS FOR COMPLETING THE PROTOCOL/SOP DEVIATION FORM: Every effort should be made to follow the protocol and standard operating procedures. If an unforeseen or an unavoidable circumstance results in a change, the Study Director must be notified as soon as practical (via phone call, email or FAX). Also notify the Regional Field Coordinator (via phone call, fax, or cc on an email message). If possible, contact the Study Director prior to taking actions that differ from the protocol. The Study Director will provide instructions and/or appropriate protocol change authorization. Otherwise, document the deviation with completion of this or similar form for each individual deviation. If the deviation is faxed or emailed to the Study Director, then the original should be mailed to the Study Director. A true copy should be retained in the Field Data Book in the Protocol and Protocol Changes section. The return copy (signed by the Study Director) should be placed in the Protocol/Protocol Changes section of the Field Data Book.

The brief description of the deviation should make clear what the protocol or SOP requirement is, and what was done that is different from this requirement. For example, "The application interval was 10 days instead of the $7(\pm 1)$ days required by the protocol."

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52

CHEMICAL/CROP/FIELD ID NO:

Ennes

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		Regional Field Coordinator:		
		Laboratory Research Director	Tr	ial Year 2014

This protocol change form when copied on colored paper is an exact copy of the original.

CHANGE# 1

IR-4 PROTOCOL AMENDMENT FORM*

Project Title: Pyrethrins + PBO / Mushroom (White Button and Oyster) PR No.: 05954

Field Trial ID: 05954.14-CA52

Description of Changes:

In this trial, the fifth application may be made during days 8-15 of case hold, 2 days before first sample harvest.

Reason for Change:

This change was suggested by the mushroom growers at this trial site in accordance with their knowledge of the mushroom growing cycle at their facility.

Impact on Study: No adverse impact.

Authorization:

Mr Kenneth S. Samoil

Study Director

(DATE)

Sponsor Representative

(DATE)

cc: IR-4 QA Unit (HQ, Lab, Field)

D. Ennes, CA

R. Sisco, CA

M. Boatwright, GPR

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

* This form is used to document protocol amendments initiated by the Study Director.

F-3 (Replaces PC-10)

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Fogging White Button

IR-4 NATIONAL PESTICIDE CLEARANCE PROTOCOL
PYRETHRINS + PBO/MUSHROOM (WHITE BUTTON AND OYSTER)

Page 1 PR No.: 05954

Date: 03/14

1. PROJECT TITLE:

PYRETHRINS + PBO: Magnitude of the Residue on MUSHROOM (WHITE BUTTON and OYSTER)

MAR 1 1 2014

WR IR-4

2. JUSTIFICATION AND OBJECTIVES:

IR-4 has received a request for the minor use of pyrethrins + PBO (piperonyl butoxide) on mushroom (white button and oyster) for control of flying insects.

To establish these tolerances, it is required that the magnitude of the residue in or on the commodity be determined as per EPA Series 860 Guidelines. (A tolerance may be proposed for PBO on mushrooms prior to the completion of this study, using data from a residue study of another insecticide. If PBO residues in this study fall below the proposed or established tolerance, then this study shall support only a tolerance for pyrethrins.) The purpose of this study is to collect and analyze treated and untreated residue samples from appropriate field sites according to the application parameters requested to provide the sponsor with residue chemistry data to support a pesticide tolerance.

To determine the magnitude of residues of total pyrethrins + PBO in or on mushroom (white button and oyster), this protocol will be employed using appropriate Standard Operating Procedures (SOP's) and will be conducted under provisions outlined in 40 CFR Part 160 (IN ACCORDANCE WITH EPA's GOOD LABORATORY PRACTICE STANDARDS). Canadian field/processing/analytical trials, if any, will be conducted at facilities consistent with the provisions outlined in the Organization for Economic Cooperation and Development (OECD) Series on Principles of Good Laboratory Practice and Compliance Monitoring.

3. SPONSOR/TESTING FACILITY NAME, ADDRESS AND PHONE:

IR-4 Project Headquarters, 500 College Road East, Suite 201 W, Princeton, NJ 08540, (732) 932-9575, FAX# (609) 514-2612.

4. STUDY DIRECTOR1:

Mr. Kenneth S. Samoil, IR-4 Project Headquarters, 500 College Road East, Suite 201 W, Princeton, NJ 08540, (732) 932-9575 extension 4614, FAX# (609) 514-2612, E-mail: samoil@aesop.rutgers.edu

5. PROPOSED DATES:

03/14

Field sites: Laboratory:

6. PROPOSED TEST SITES:
Field sites: Refer to Section 23

Experimental Start : Experimental Termination:

11/15

Refer to Section 24

Study Completion:

10/16

7. STUDY AUTHORIZATION:

ind 11, 204

Kenneth S. Samoil / Study Director / Date

7.1 STUDY DIRECTOR INITIALS:

¹In case the Study Director is not available, contact Dr. Deborah Carpenter (x4637) or Dr. Daniel Kunkel (x4616) at IR-4 Headquarters (732) 932-9575 for guidance.

Page 2 PR No.: 05954 Date: 03/14

ID No. 05954.14-CA52

Ennes

8. GOOD LABORATORY PRACTICE COMPLIANCE:

The appropriate cooperative testing facility (field and laboratory) will be responsible for certifying that its portion of the study will be conducted in accordance with EPA's Good Laboratory Practice (GLP) Standards, 40 CFR 160, amended and effective Oct. 16, 1989. A statement of compliance, together with any GLP deviations will be signed and submitted by the appropriate Research Directors in their report or data package.

9. QUALITY ASSURANCE:

Quality Assurance duties and responsibilities will be in conformance with 40 CFR 160.35. A Quality Assurance Statement will be submitted in the final report and shall include the date inspections were made and date(s) the findings were reported to the Study Director and management.

Purethrins+PBO/Mushroom

10. TEST SYSTEM/CROP:

MUSHROOM - Use a commercial variety. Trials MD223, MD224, and CA52 shall be conducted on white button mushrooms. Trial CA53 shall be conducted on oyster mushrooms. Report: variety, location of mushroom house, and other descriptive information if available.

Field trials will be conducted at the appropriate sites to support the establishment/maintenance of a national residue tolerance, see Section 23 for these assignments. Refer to Section 11.4 for requirements to differentiate multiple trials by the same field researcher.

11. TEST SYSTEM DESIGN and STATISTICAL METHOD:

11.1 Each test site will consist of one untreated plot and one treated plot.

The individual plots shall be of adequate size to ensure that no more than 50% of the harvestable crop in the sampled area will be needed to provide the necessary plant material. See Parts 17 & 18 for requirements for residue sampling.

11.2 Employ adequate buffer zones between each of the plots to prevent contamination. For most application types, a minimum distance of 15 feet is required, but a minimum of 50 feet is strongly preferred. For applications made by airblast, mist blower, or power sprayers, a minimum distance of 50 feet is required, but a minimum of 100 feet is strongly preferred. If another study using a test substance with the same active ingredient is being conducted at the same research site, the untreated plot from one study must be separated from the treated plot(s) of the other by the appropriate buffer zone indicated above.

Use separate mushroom houses or compartments/rooms/barriers within a house for the treated and untreated plots. In the fogging trials, it is acceptable to move the mushrooms into an enclosure that will be used only for the applications. The mushrooms must be present during the fogging and for at least 30 minutes afterwards, and may then be moved back into their long-term growing room.

11.3 If this pesticide use is not registered on this crop, federal law requires that the treated crop must be destroyed or handled in such a way that it is not consumed as a human food or animal feed.

Page 3 PR No.: 05954 Date: 03/14

11.4 If a Field Research Director is assigned more than one trial in this study, the following requirements must be met:

An independently prepared tank-mix must be used in each trial, and the first application in each trial shall be separated by at least 30 days. Also, in the MD trials (conducted in Pennsylvania), the applications in the two trials shall be made using different application types—surface sprays in trial MD223 and fogging with an aerosol generator in trial MD224. In the CA trials, one trial (CA53) shall be conducted on oyster mushrooms and the other (CA52) on white button mushrooms.

If these criteria cannot be met to separate multiple trials, the Field Research Director should contact the Study Director to discuss possible alternatives that can be amended to the protocol. Trials conducted in different calendar years are exempt from these requirements.

- 11.5 Mark plots with identifiable markers containing at minimum the Field ID number and treatment number or treatment name that will persist for the duration of the field research trial or that can be readily replaced.
- 11.6 This study is not designed for statistical evaluation of field data.

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

12. TEST SITE PREPARATION:

Prepare or select a test site that has been maintained following good local agricultural practices for the production of mushroom (white button or oyster as assigned) including fertilization, irrigation, if necessary and available, and other practices that ensure commercially acceptable crop production.

The test site will have a known pesticide and crop treatment history of a minimum of 1 year and preferably 3 years.

13. TEST/CONTROL SUBSTANCE:

Use the Evergreen Crop Protection EC60-6 formulation [6% pyrethrins (0.05088 lbs./gallon)and 60% PBO (0.5088 lbs./gallon)] (EPA Reg No. 1021-1770, Pyrethrins CAS# 8003-34-7, PBO: 51-03-6) that has been characterized to meet GLP standards.

IR-4 Headquarters personnel will arrange procurement of GLP test substance from the Registrant. Upon receipt, document the lot/batch number, condition, quantity received and if GLP characterized. **Temperature monitoring should begin within 2 days of receipt of the test substance, regardless of where it is held or stored.**

<u>Contact the Study Director</u> if there are any concerns regarding the GLP status, labeled identification, expiration date, etc. of the test substance.

The registrant will provide a copy of the Certificate of Analysis to IR-4 Headquarters.

Store the test substance in a secure, clean, dry area and document storage temperatures.

EPA regulations require that test substance container(s) must be retained until the final study report is completed.

Study completion can be confirmed by contacting the Study Director or the Regional Field Coordinator, or by searching the IR-4 web site; click on "Food Crops" and under the "IR-4 Food Crops Database" click on the "Test Substance Container Disposal Approval" link. URL: http://ir4.rutgers.edu/FoodUse/Food_UseSimple3.cfm

Alternatively, some registrants will archive the test substance containers. If test substance containers are shipped to another location, the shipment must be conducted in accordance with local, state, and Federal regulations. See

Page 4 PR No.: 05954

Date: 03/14

shipping documents for directions for return of the test substance; if none are given, contact the registrant representative: Jan Sharp, MGK, e-mail: Jan.Sharp@mgk.com or jksharp@aol.com, phone (765) 593-3410, cell: 763-568-1039

The registrant will archive a retention sample of the test substance.

Control substances are not relevant to this study.

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

14. TEST SUBSTANCE APPLICATION:

- 14.1 Simulate commercial application practices by applying the test substance in a manner that represents a major application technique that is used by area commercial growers, while following the directions specified in Section 15.
- Use application equipment that will provide uniform application of the test substance and result in adequate coverage.
- The test substance, if applied in a mixture, must be applied to the test system within 2 hours of mixing.
- Each field trial requires a unique spray mixture. Do not use the spray mixture from one field trial on another field trial.
- Agitate the test substance during the application, if practical, to ensure that it is well mixed.

In trials in which a sprayer is used (MD223):

To prepare a diluted spray solution, fill the mixing container with ½ gallon water (±5%), add 0.5 oz (14.8 ml) of Evergreen, mix, and complete filling with a total of 1 gallon of water (±5%). Apply at a rate of 1 gallon of diluted solution per 1,000 square feet of surface area with any low-pressure sprayer typically used for indoor applications. Treat all areas that may harbor insect pests including outside and inside of trays (prior to casing and composting), posts, cracks, crevices, voids, around door frames and other areas where organic matter builds or pests are seen. (It is not necessary to spray the ceilings.) DO NOT DIRECTLY SPRAY THE MUSHROOMS.

In trials in which a fogger is used (CA52, CA53, MD224):

Apply as an ultra-low volume (ULV) mist or aerosol. Dilute 10 oz. product per gallon of water. Apply at the rate of 10 ounces (296 ml) product per 10,000 cubic feet. Use appropriate spray equipment, such as mechanical break up cold aerosol generators or spot aerosol generators (Actisol), to achieve uniform coverage. Close all doors and windows and shut off all ventilating systems. Apply the product as a fine mist in the air above trays, shelves, and other areas where organic matter may accumulate. Do not remain in treated areas and ventilate before re-entry. Leave the room closed and ventilation off for 30 minutes or longer to allow spray mist to settle before re-entry.

14.2 Full Calibrations for output and speed must be performed to ensure accurate delivery. A calibration consists of a minimum of three consecutive, documented checks for nozzle or hopper output and speed (equipment or walking speed). (When the output of a fogger is calibrated or rechecked, it is not necessary to record the outputs of individual nozzles. No speed check is required because no movement occurs during the applications.) The variation of the total output recorded for any one of the three checks must not be greater than 5% from the mean for the full calibration.

In trials in which a fogger is used, it is acceptable to conduct a single calibration run for output prior to the first application. Recalibrations and rechecks will not be required. The calibration is needed in order to calculate the amount of time the fogger must run in order to dispense the required amount of test substance.

Discharge/Output Calibrations must be performed:

Just prior to the first application of test substance, completely calibrate².

²"Just prior" includes the day prior to the application, but calibration on the day of use is preferred.

Page 5 PR No.: 05954 Date: 03/14

In trials in which a sprayer is used, another complete calibration must be performed and documented when application parameters or equipment components have changed between applications. Recalibration is required after any of the following have changed: application type; intended nozzle or hopper output; nozzle size or type, or other equipment that may affect the output etc. A recalibration is required even if the pressure (intended nozzle output) has been changed back to the pressure used at the initial calibration. It is not necessary to fully recalibrate when CO₂ tanks are changed, or when equipment is transported offsite or cleaned, or if nozzles are removed and then placed back on (even if other nozzles have been used in the interim, unless the pressure has also been changed); however a recheck must take place prior to the next application. If the recheck is out of specification (see paragraphs below) a recalibration is required. Use equipment logs to document changes in the equipment parameters.

Rechecking the output, at a minimum, is necessary for multiple applications, as long as parameters have not changed. A single output check may be conducted to confirm consistent delivery (±5% of the last complete calibration) just prior to subsequent applications.

The equipment must be completely recalibrated if:

- a recheck results in an output that differs from the mean of the complete calibration by greater than 5%
- the variation of any nozzle's output from the mean output of all of the nozzles during the same run is greater than 5%

To minimize the occurrence of application rates that fall outside the protocol range, calculations for the amount of test substance to be applied that are based on the discharge rate should be performed using mean output calculated from the most recent complete calibration data (mean of three output checks), not on single-output recheck results. The use of a target output rather than the mean output may be used in the calculations made prior to the application; however a complete calibration must be conducted just prior to each use of a target output, and the mean output must be within 5% of the target output. Using a target output rather than a mean output increases the probability that an application rate deviation will occur. Verification of the amount of test substance that has been applied will always be calculated using the most recent complete calibration data.

Complete calibration data from another trial (performed on the day of or day prior to the application in this: trial) may be used. However, a recheck (single output check) must be performed just prior to the application in this trial, but subsequent to any other applications with the application equipment. If more than one field trial in this study has been assigned to the same Field Research Director, it is not necessary to perform separate output rechecks for applications made on the same day in the respective trials.

14.3 Actual Application Rate: Record actual application pass-times in the Field Data Book and verify the accuracy of the application against the protocol rate. The application is considered acceptable if the accuracy is within -5% and +10% of the target rate specified in Section 15. If the application did not meet this range, the Study Director must be notified of this deviation before proceeding with this trial.

The submitted Field Data Book shall contain the original calibration data or a true copy of all complete calibrations referenced, along with the original data from the rechecks performed for this trial.

Page 6 PR No.: 05954

Date: 03/14

15. APPLICATION TREATMENTS AND TIMING:

15.1 These treatments shall be applied only in: MD223

Trt#	Treatment	Target Rate of active ingredients	Target Rate of formulated product*	Application Type	Spray Volume Range**
01	Untreated		Not Applicable	Not Applicable	Not Applicable
02	PYRETHRINS + PBO	0.008664 lbs pyrethrins + 0.08664 lbs. PBO per acre (0.0002 lbs. pyrethrins + 0.002 lbs. PBO per 1000 sq. ft.)	14.8 ml/1000 sq. ft.*** (0.5 oz./1000 sq. ft.)	Surface application spray	41-46 GPA

^{*}The nominal formulation concentration of the test substance will be used in calculating application rates (see Section 13 for the nominal concentration).

If it appears that phytotoxicity has resulted from applications made in this trial, contact the Study Director. If possible, take one or more photographs and send them to the Study Director via email to facilitate the evaluation of crop/ test substance effects.

Make 6 applications as follows:

- 1) Following cleaning of the room from previous crop, treating inside and outside of trays prior to adding compost
 - 2) 2-5 days after pasteurization
 - 3) During the first 7 days of spawn run
 - 4) During the first 5 days of casing

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5) During days 8-13 of case hold, 2 days before first sample harvest

6) Between first and second break, after first sample harvest and 2 days before second harvest

15.2 These treatments shall be applied in the following trials only: CA52, CA53, MD224

Trt#		Target Rate of active ingredients	Target Rate of formulated product*	Туре	Spray Volume
01	Untreated	Not Applicable			Not Applicable
03	PYRETHRINS + PBO	0.003975 lbs. pyrethrins + 0.03975 lbs. PBO per 10,000 cu. ft.	296 ml/10,000 cu. ft.**** (10 oz./10,000 cu. ft.)	955	Ultra-low volume, in accordance with equipment specifications

^{*}The nominal formulation concentration of the test substance will be used in calculating application rates (see Section 13 for the nominal concentration).

If it appears that phytotoxicity has resulted from applications made in this trial, contact the Study Director. If possible, take one or more photographs and send them to the Study Director via email to facilitate the evaluation of crop/ test substance effects.

Trials CA52 and MD224—Make 6 applications as follows:

- 1) Following cleaning of the room from previous crop
- 2) 2-5 days after pasteurization
- 3) During the first 7 days of spawn run
- 4) During the first 5 days of casing
- 5) During days 8-13 of case hold, 2 days before first sample harvest
- 6) Between first and second break, after first sample harvest and 2 days before second harvest

^{**}GPA=gallons per acre

^{***}Dilute 0.5 oz. product per gallon of water.

^{****}Dilute 10 oz. product per gallon of water.

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Trial CA53 (oyster mushrooms)--Make 5 applications as follows:

- 1) Following cleaning of the room from previous crop, 1 day before fill
- 2) Within 2 days after filling
- 3) 2 days before first sample harvest (first break)
- 4) 2 days before second sample harvest (second break)
- 5) 2 days before third sample harvest (third break)

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16. SUPPLEMENTAL CROP TREATMENTS:

Protect the integrity of the field trial by managing pests that may cause significant damage to the test crop. Only EPA-registered maintenance pesticides should be used; apply according to labeled directions. Make identical applications to the untreated and treated plots.

<u>Consult with Study Director</u> if no registered pesticides are available to control the pests. Document all supplemental crop treatments. DO NOT USE pesticides that are similar to the test substance or other chemicals that might interfere with analysis of the test substance. If unsure, <u>contact the Study Director</u>.

17. RESIDUE SAMPLE COLLECTION:

Collect two samples from each plot. Each sample should be representative of the entire plot (except plot ends). At 2 days after the <u>fifth</u> application in trials CA52, MD223, and MD224 and 2 days after the <u>third</u> application in trial CA53, (starting with the untreated plot) collect a minimum of 12 marketable-sized mushrooms per sample. Each sample should be collected during a separate run through the entire plot. Each sample should weigh a minimum of 2 lbs (but preferably not more than 3 lbs). Avoid sampling from plot ends.

Remove loose adhering media by either lightly brushing with a soft dry clean brush or lightly rinsing with a minimum of clean water (document what is used to remove the debris, e.g. a clean brush, clean gloved hand, clean dry towel, or similar method). Pat lightly while drying with clean paper towels. DO NOT RUB WHILE RINSING OR DRYING THE MUSHROOMS.

Follow proper handling practices with clean or gloved hands and clean tools to prevent transfer of pesticide residue from one sample to another. <u>If practical</u>, complete harvest and sample preparation for the untreated plot(s) before proceeding to the treated plot(s).

Place all samples in plastic-lined cloth bags. Bags may be obtained from the Field Research Coordinator (Section 23). Identify each sample bag** with correct Field ID number, Test Substance (common chemical name and formulation), complete sample ID (see Section 18) and harvest/sampling dates. See Section 19 for residue sample handling directions.

Collect two additional treated samples as above, 2 days after the <u>sixth</u> application in trials CA52, MD223, and MD224 and 2 days after the <u>fourth AND fifth</u> applications in trial CA53.

**When using IR-4 plastic lined cloth residue sample bags, complete attached sample tag as follows:

Field ID Number; Crop Fraction; Test Substance (enter the chemical name listed in Section 15); Sample ID; Trt#;

Harvest Date; Sample Date; Field Research Director (enter name and telephone number).

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18. FIELD RESIDUE SAMPLE INVENTORY:

18.1 FIELD RESIDUE SAMPLE INVENTORY: Trial MD223

SAMPLE	TRT#	TREATMENT	DAYS AFTER MOST RECENT APPLICATION	MINIMUM SAMPLE SIZE	CROP FRACTION
A	01	Untreated	NA	12 mushrooms / 2 lbs.	Mushroom
В	01	Untreated	NA	12 mushrooms / 2 lbs.	Mushroom
CS	02	PYRETHRINS + PBO	2 (5 applications)	12 mushrooms / 2 lbs.	Mushroom
DS	02	PYRETHRINS + PBO	2 (5 applications)	12 mushrooms / 2 lbs.	Mushroom
ES	02	PYRETHRINS + PBO	2 (6 applications)	12 mushrooms / 2 lbs.	Mushroom
FS	02	PYRETHRINS + PBO	2 (6 applications)	12 mushrooms / 2 lbs.	Mushroom

18.2 FIELD RESIDUE SAMPLE INVENTORY: Trial CA53

SAMPLE	TRT#	TREATMENT	DAYS AFTER MOST RECENT APPLICATION	MINIMUM SAMPLE SIZE	CROP FRACTION
Α	01	Untreated	NA	12 mushrooms / 2 lbs.	Mushroom
В	01	Untreated	NA	12 mushrooms / 2 lbs.	Mushroom
CO	03	PYRETHRINS + PBO	2 (3 applications)	12 mushrooms / 2 lbs.	Mushroom
DO	03	PYRETHRINS + PBO	2 (3 applications)	12 mushrooms / 2 lbs.	Mushroom
EO	03	PYRETHRINS + PBO	2 (4 applications)	12 mushrooms / 2 lbs.	Mushroom
FO	03	PYRETHRINS + PBO	2 (4 applications)	12 mushrooms / 2 lbs.	Mushroom
GO	03	PYRETHRINS + PBO	2 (5 applications)	12 mushrooms / 2 lbs.	Mushroom
НО	03	PYRETHRINS + PBO	2 (5 applications)	12 mushrooms / 2 lbs.	Mushroom

18.3 FIELD RESIDUE SAMPLE INVENTORY: Trials CA52 and MD224

SAMPLE	TRT#	TREATMENT	DAYS AFTER MOST RECENT APPLICATION	MINIMUM SAMPLE SIZE	CROP FRACTION
Α	01	Untreated	NA	12 mushrooms / 2 lbs.	Mushroom
В	01	Untreated	NA	12 mushrooms / 2 lbs.	Mushroom
CF	03	PYRETHRINS + PBO	2 (5 applications)	12 mushrooms / 2 lbs.	Mushroom
DF	03	PYRETHRINS + PBO	2 (5 applications)	12 mushrooms / 2 lbs.	Mushroom
EF	03	PYRETHRINS + PBO	2 (6 applications)	12 mushrooms / 2 lbs.	Mushroom
FF	03	PYRETHRINS + PBO	2 (6 applications)	12 mushrooms / 2 lbs.	Mushroom

19. RESIDUE SAMPLE HANDLING AND SHIPMENT:

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After residue sample collection, store samples in a freezer. If the samples cannot be placed into a freezer within approximately one hour, use an appropriate method of cooling and temperature-monitoring samples in order to maintain integrity.

Sample handling and storage methods can be outlined generally in SOP's, but describe methods fully in the Field Data Book.

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For pre-shipment storage, the samples will be held frozen at temperatures generally less than -18 °C (0 °F), allowing for normal variations of less than 24 hours duration due to freezer cycling, sample movement, etc. If the analytical laboratory is close enough to the field site to permit delivery of the samples by field personnel on the day of sampling, then pre-shipment frozen storage is not required.

Freezer logs will be used to document all sample additions to and removals from storage. All on-site storage temperatures will be monitored and documented.

Shipment of frozen samples will be by freezer truck or express shipment. Shipments sent via express shipment (overnight carriers such as Federal Express or Airborne) will require the addition of quantities of dry ice sufficient to maintain sample integrity while in transit to the laboratory. Document the notification made to the sample destination by use of e-mail, fax, telephone log, Field Data Book communication note, etc.

Insert a true copy of Field Data Book Part 8B and a blank copy of Field Data Book Part 8C (Sample Arrival Check Sheet) into each box or container used to ship sample bags.

For analysis, send samples to: Megan T. Boatwright, Golden Pacific Laboratories, LLC, 4720 W. Jennifer Ave., Suite 105, Fresno, CA 93722; (559) 275-9091; FAX# 559-275-1800; e-mail: mboatwright@gplabs.com

20. FIELD DOCUMENTATION AND RECORD KEEPING:

All operations, data and observations appropriate to this study should be recorded directly and promptly into the IR-4 Field Data Book.

The content of the Field Data Book should be sufficiently detailed to completely reconstruct the field trial. At a minimum, collect and maintain the following raw data:

- 20.01- Names of all personnel conducting specific research functions
- 20.02- Amendments and deviations from protocol and standard operating procedures (including copies of signed protocol changes received prior to submission of the Field Data Book to the Regional Field Coordinator).
- 20.03- Test site information
- 20.04- Plot maps
- 20.05- Test substance receipt, use and container/substance disposition records
- 20.06- Test substance storage conditions (including temperatures)
- 20.07- Data regarding calibration and use of application equipment
- 20.08- Treatment application data
- 20.09- Crop maintenance pesticides and cultural practices, test plot history, and growing medium information. (The nature of this study is such that growing medium characteristics do not need to be determined under GLP standards.)

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- 20.10- Residue sample identification, collection, storage conditions and handling (Weight measurements are considered estimates for the samples collected from field or processing trials, and the scales/balances used for this purpose do not need to be maintained in strict adherence to GLP.)
- 20.11- Residue sample shipping information
- 20.12- Description of crop destruction, or explanation for lack of destruction

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- 20.13- Temperature/humidity records are --required for a minimum of one month prior to the first application until last residue sample collection. These records do not need to be determined under GLP standards.
- 20.14- Pass times (if applicable) and other data to confirm amount of material applied to plots
- 20.15- Equipment maintenance records with indication of routine vs. non-routine nature of maintenance
- 20.16- Other applicable data requested in the IR-4 Field Data Book necessary for confirmation that the study was conducted in accordance with the protocol.

Compliance with GLP's is not required for the collection of data associated with crop phytotoxicity.

21. PROTOCOL/SOP MODIFICATIONS - FIELD RESEARCH:

<u>Consult with the Study Director</u> and with the Regional/ARS Field Research Coordinator to discuss desired changes in the protocol <u>prior to occurrence</u>. If appropriate, an amendment will be issued.

Any deviations from the protocol will require the Field Research Director to complete a written report outlining the changes. Provide this report to the Study Director promptly (e.g. within 14 days of occurrence or recognition) for review and signature.

All deviations from the approved SOP's also require documentation and approval by the Study Director.

22. FIELD RESEARCH REPORT/ARCHIVING:

The Field Research Director will forward the completed <u>originals</u> of the IR-4 Field Data Book and other raw data to the Regional/ARS Field Research Coordinator as soon as possible after the shipment of residue samples.

The Field Research Director will maintain a complete certified true copy of these field documents.

The original IR-4 Field Data Book and other raw data will be forwarded to IR-4 Headquarters for reporting and archiving.

23. FIELD PERSONNEL / ID NO. / REGIONAL/ARS FIELD RESEARCH LOCATION

If a Field Research Director is assigned more than one trial in this study, refer to Section 11.4 for requirements to differentiate the trials.

Field Research Director	Field ID NO.	RFC	Test Crop
Ms. Marylee Ross, Univ. of MD/LESREC, 27664 Nanticoke Rd., Salisbury, MD 21801, (410) 742-8788 x 310, FAX# 410-742-	05954.14-MD223	NER	Mushroom (white button)
1922; e-mail: mross@umd.edu	05954.14-MD224	IVEIX	Mushroom (white button)
David Ennes, Kearney Agricultural Research & Ext. Center	05954.14-CA52		Mushroom (white button)
(KARE), 9240 S. Riverbend Ave., Parlier, CA 93648, (559) 646-6061, FAX# 559-646-6015, CELL# (559)-791-5309,e-mail:	05954.14-CA53	WSR	Mushroom (oyster)
djennes@ucanr.edu			

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RFC = Regional/ARS Field Coordinator Location:

NER: Ms. Edith L. Lurvey, Dept. of Entomology, 630 W. North Street, Geneva, NY 14456; Tel: (315) 787-2308, FAX# 315-787-2326; e-mail: ell10@cornell.edu.

WSR: Ms. Rebecca Sisco, Regional Field Coordinator, Western Region IR-4 Project, Univ. of CA, Dept. of Environmental Toxicology, One Shields Ave., 4218 Meyer Hall, Davis, CA 95616; Tel: (530) 752-7634; FAX# 530-752-2866; e-mail: rsisco@ucdavis.edu.

24. LABORATORY PERSONNEL/ID NO.:

LAB ID NO .:

05954.14-GPR01

LABORATORY RESEARCH DIRECTOR/TESTING LABORATORY:

Megan T. Boatwright, Golden Pacific Laboratories, LLC, 4720 W. Jennifer Ave., Suite 105, Fresno, CA 93722; (559) 275-9091; FAX# 559-275-1800; e-mail: mboatwright@gplabs.com

25. LABORATORY SAMPLE INVENTORY:

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Treated and untreated samples of mushroom (white button or oyster) will be received from each of the field sites in Section 23.

Notify appropriate Field Research Director and Regional/ARS Field Research Coordinator of sample receipt.

26. LABORATORY SAMPLE IDENTIFICATION:

Each sample (raw commodity, crop fractions, storage stability, method validation, etc.) is to be assigned a unique laboratory sample number by the laboratory personnel.

A cross-reference must be maintained between the assigned laboratory sample number and the identification utilized in the Residue Sample Shipping and Identification Sheet.

27. LABORATORY SAMPLE STORAGE/PREPARATION:

Store samples in a limited access area at temperatures that will maintain frozen sample integrity (generally less than - 20°C), until extraction.

The samples may be stored whole or ground, depending on the standard procedure of the analytical laboratory. However, if maceration will cause residue deterioration, then samples must be stored whole until analysis.

Do not composite samples.

The entire sample provide from the field must be ground, if sample is too large to be manageable then contact the Study Director for appropriate subsampling to assure the representative nature of the sample obtained in the field is maintained by the laboratory procedure.

Generally, sample extracts should be stored at ≤ 4°C for no longer than 14 days before analysis.

Storage stability of extracts must be demonstrated if extracts are not analyzed on the same day as they are obtained.

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Concurrent fortifications may be used to show extract storage stability, as long as the extracts from the concurrent fortifications have been stored at least as long as the extracts obtained from the weathered samples.

Contact the Study Director if samples extracts are stored greater than 14 days prior to analysis.

All storage temperatures, conditions and location of sample storage are to be monitored and documented.

28. LABORATORY REFERENCE SUBSTANCE:

Obtain the laboratory reference substance(s): pyrethrins (or PY 1), piperonyl butoxide (PBO), PBO (internal standard, PBO-IS)) & MGK 264, from the Registrant. Contact Brice.besser@mgk.com, phone# 763-593-3439 to procure the proper material.

Document the date the analytical standards are received, the source, stated purity, storage conditions, and expiration date.

Use only reference standards that have been characterized to meet GLP standards.

Archival and characterization of the reference substance (purity, identity, stability and solubility) is the responsibility of the registrant.

Pyrethrins+PBO/Mushroom

29. ANALYTICAL METHODOLOGY:

REFERENCE METHOD:

Method of Analysis for Residues of Pyrethrins, Piperonyl Butoxide, and MGK 264 in Prunes, Beans, Sugar, Chocolate cakes, Peanuts, Butter, Candy, Lettuce, Flour, Potatoes, Banana Cream Pie, Bread, Meat, and Acetone Surface Extract

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Ennes

OR

GPL-MTH-074: Determination of Pyrethrins and Piperonyl Butoxide (PBO) in crops. Prepared by Mary Huebner, Effective May 24, 2010, 28 pp

REFERENCE METHOD MODIFICATIONS/METHOD VALIDATION

The above listed Reference Method(s) may be modified if needed for the test matrix.

The Reference Method, along with any modifications must be validated on each crop fraction prior to residue sample analysis of that crop fraction. (For the purpose of this residue analysis, oyster mushroom is considered the same crop fraction as white button mushroom.)

To validate the method, fortify some of the *white button* control samples in triplicate with pyrethrin, piperonyl butoxide & MGK 264 at a minimum of 3 concentration levels each, lowest level of method validation (0.1 ppm or lower), 1ppm, and 10 ppm.

A minimum of 6 fortification samples (recovery spikes) at the lowest level of method validation (LLMV) is required for each analyte on each fraction prior to completion of the analytical phase of the study. The acceptable recovery range is 70-120%.

<u>Documented approval from the Study Director</u> is needed for recoveries outside of this range.

Document the exact procedures for sample analysis.

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This validated step-by-step Working Method should incorporate all changes from the Reference Method.

<u>Provide the Study Director</u> with a copy of this Working Method and results of method validation prior to treated sample analysis.

If the Working Method has been used successfully on the test matrix or a similar matrix, the Study Director may waive the requirement for method validation. Contact the Study Director for details.

SAMPLE ANALYSIS:

Pyrethrins+PBO/Mushroom ID No. 05954.14-CA52 Ennes

Samples will be analyzed for the residues of pyrethrin, piperonyl butoxide & MGK 264 following the Working Method.

For each field trial associated with this study, analyze at least one untreated and all treated residue samples for each matrix.

<u>Contact the Study Director</u> if residues above the lowest level of method validation for each matrix are detected in the untreated samples.

Any changes or modifications to the Working Method <u>require Study Director approval</u>. Whenever possible, <u>notify</u> the Study <u>Director</u> prior to occurrence.

Any change or modification to the Working Method must be documented in the raw data and discussed in the final report.

A typical analytical set (or run) should consist of calibration standards, untreated sample(s), concurrent recovery sample(s), and treated sample(s). Each analytical set must begin and end with a calibration standard. Additional calibration standards should be injected with sample analysis to ensure goodness of fit to the standard curve.

Over the course of method validation, residue sample and storage stability (if appropriate) analysis, adequate fortification samples that bracket the actual residues should be analyzed. At least one concurrent fortification sample should be analyzed per analytical set.

The Study Director should be immediately notified if concurrent recoveries deviate from the acceptable recovery range of 70% to 120%.

All efforts will be made to resolve existing recovery problems before continuing forward with additional analytical sets.

If residues in samples are above the highest Working Method validation concentration, additional recovery samples at levels above actual residues must be run in triplicate (3 uniquely extracted samples) as soon as practical. A minimum of 6 fortification samples (recovery spikes) at the lowest level of method validation (LLMV) is required for each analyte on each fraction prior to completion of the analytical phase of the study.

Treated samples may be analyzed using a screening run prior to analysis of treated samples using the working method, if the procedure is covered in the laboratory SOPs and the working method for the study. The peak areas of the treated samples and highest standard from any screening run will not be quantified or reported. (Any data, such as chromatograms, generated during screening run(s) will be kept).

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STORAGE STABILITY ANALYSIS:

As soon as possible after receipt of samples, a minimum of nine subsamples of all available crop fractions of the control (white button mushroom) shall be fortified with pyrethrin, piperonyl butoxide & MGK 264 at 1 ppm each.

Three samples of each analyte and crop fraction will be analyzed after the appropriate storage period. The analysis of storage stability samples may be conducted following a storage period equal to or greater than 90% of the longest storage period of the field-treated samples prior to their analysis. The remaining samples will be retained for long-term storage.

If analysis of treated/control samples is completed within 30 days of harvest analysis of storage fortification samples may not be required. If appropriate, contact Study Director.

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Ennes

STATISTICAL METHOD(S):

Utilize regression analysis to determine the linearity of the standard curve (r²) or the goodness of fit if the standard curve is non-linear.

Criteria for acceptance of the standard curve(s) or other statistical methods shall be determined by Laboratory Research Director and documented in the raw data.

30. DISPOSITION OF SAMPLES:

A minimum of 100 g or all (if less than 100 g) of each of the remaining frozen treated and untreated crop samples is to be retained for at least 12 months after submission of the laboratory report.

Long term fortified storage study samples shall be retained for a period of 1 to 5 years, as appropriate, after submission of the final report.

Sample extracts can be disposed of after data analysis.

The Study Director is to be contacted prior to discarding samples.

31. LABORATORY PROTOCOL/SOP MODIFICATIONS - LABORATORY RESEARCH:

<u>Consult with the Study Director</u> regarding desired changes in the protocol <u>prior to occurrence</u>. If appropriate, an amendment will be issued. Any unauthorized changes to the protocol will require the Laboratory Research Director to complete a written report outlining the changes.

This report should be **provided to the Study Director promptly** (e.g. within 14 days of occurrence) for review and signature.

All deviations from the approved SOP's also require documentation and approval by the Study Director.

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32. LABORATORY DOCUMENTATION AND RECORD KEEPING:

All operations, data and observations shall be recorded in the analyst's notebook and log books, which must be signed and dated on date of entry.

At a minimum, collect and maintain the following raw data:

- 32.01 Analytical standard(s) receipt, use and disposition records
- 32.02 Analytical standard(s) storage conditions
- 32.03 Analytical standard(s) dilution calculations and preparation records
- 32.04 Sample storage conditions and locations
- 32.05 Calculation work sheets
- 32.06 All chromatograms, including those that are not reported
- 32.07 Chain of custody records
- 32.08 Deviations from protocol, Working Method and/or standard operating procedures
- 32.09 Name of personnel conducting specific research functions
- 32.10 Sample analysis worksheets
- 32.11- Storage stability fortification records
- 32.12 Concurrent recovery fortification records

A study file shall be developed and maintained by the Laboratory Research Director in conjunction with the analysis. It will contain a copy of the protocol, all pertinent raw data, documentation, records, correspondence, and the final analytical summary report. In addition, records of equipment maintenance and calibrations will be kept and periodically archived.

33. LABORATORY RESEARCH REPORT:

The analytical summary report sent to IR-4 HQ shall contain, but not be limited to:

- 33.01 Applicable method validation data
- 33.02 Applicable storage stability data
- 33.03 Residue levels for control and treated samples with concurrent fortified recoveries
- 33.04 Complete copy of the analytical Working Method
- 33.05 Any modifications or deviations from the protocol and/or Working Method
- 33.06 Completed IR-4 residue data reporting form or appropriate reporting form which includes information listed on the IR-4 generic residue data reporting form
- 33.07 A minimum of 10 representative chromatograms of treated samples (if fewer than 10 submit all), a minimum of three chromatograms each of control and fortified control samples, chromatograms (one of each concentration) for at least one set of calibration standards for each compound analyzed, and any chromatograms of samples with unusual or inconsistent results

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- 33.08 Summary of quantitative data associated with samples and spike recovery samples should be provided (e.g. peak heights, injection volumes, sample sizes, final volumes, etc.)
- 33.09 Clearly presented example calculations or statistical evaluations
- 33.10 Discussion of results (including purpose of method modifications, sample storage conditions, etc.)
- 33.11 Summary data associated with calibration standards (dilution and use records, calibration curves, etc.)

34. LABORATORY ARCHIVES:

When the final analytical summary report is completed the analytical report and all original raw data will be sent to IR-4 Project Headquarters, 500 College Road East, Suite 201 W, Princeton, NJ 08540, (732) 932-9575, FAX# (609) 514-2612 (when an original document cannot be provided a "true copy" will be provided). All original raw data shall be secured in the archives of IR-4 Headquarters, Princeton, NJ. A "true copy" of the raw data and the final analytical report shall be secured in the archives of the Laboratory Research Director/Testing Facility.

Jan Sharp, MGK, e-mail: Jan.Sharp@mgk.com or jksharp@aol.com, phone (765) 593-3410, cell: 763-568-1039

Field Research Director	Field ID NO.	Formulation	Amount of Test	Date Needed
	v ,		Substance	
Ms. Marylee Ross, Univ. of MD/LESREC, 27664 Nanticoke Rd., Salisbury, MD 21801, (410) 742-8788 x 310, FAX# 410-742-1922; e-mail: mross@umd.edu	05954.14-MD223 05954.14-MD224	Evergreen Crop Protection EC60-6	1 pint 1 pint	3/21/2014
David Ennes, Kearney Agricultural Research & Ext. Center (KARE), 9240 S. Riverbend Ave., Parlier, CA 93648, (559) 646-6061, FAX# 559-646-6015, CELL# (559)-791-5309,e-mail: djennes@ucanr.edu	05954.14-CA52 5 05954.14-CA53	Evergreen Crop Protection EC60-6	1 pint 1 pint	3/21/2014