

December 2020: Agenda

2020 - The Dumpster Fire: Looking Ahead to 2021

- Shipping reminders
- Reducing samples
- Draft protocol reviews
- Preparing for 2021 trials
- New western region websites
- Highlights from a challenging year (FRDs)
- QA reminders for Part 6



Messages from Captain Horak



Shipping During Holidays

- Campus Closures
 - UC Davis Dec 21-Jan 1 (reopen Jan 4)
- Lab Closures
 - Contact lab before shipping during this time

December 2020						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

January 2021						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Colorfulcalendar.com

Shipping

- Check the protocol and all amendments regarding where to ship
- This year had two trials going to the wrong lab
 - Wrongly addressed box
 - Wrong study placed in the boxes when shipping multiple samples on the same day

Reducing Samples

- Please reduce the sample weight if significantly over the weight range in the protocol
 - Increased shipping cost
 - Excess sample has to be stored and processed by the lab
 - 30 lb of fruit when protocol says 6 lb is way too much!



Draft Protocol Review

Ken Samoil
IR-4 Headquarters



SDE-PPNTs
Study Director Extraordinaire
Purveyor of the Protocol and Notebook Templates

Draft Protocol Preparation and Review

- Protocol preparation generally begins after the completion of the **National Research Planning Meeting** in October
- **Crop sampling information:** EPA Guidelines
- **Use pattern:** PCR (request) form (subject to modification by the registrant)
- After internal review at HQ, the draft is posted for external review, including field and lab personnel

Clofentazine / Lychee
ID No. 0932420-111476
Coughlin

IR-4 NATIONAL PESTICIDE CLEARANCE PROTOCOL
CLOFENTAZINE/LYCHEE

Page 1
PR No.: 09324
Date: 07/28

1. PROJECT TITLE: CLOFENTAZINE: Magnitude of the Residue on LYCHEE

2. JUSTIFICATION AND OBJECTIVES:
IR-4 has received a request for the minor use of clofentazine on lychee for control of mites, including rust mite. IR-4
To establish this tolerance, it is required that the magnitude of the residue in or on the commodity be determined as per EPA Series 860 Guidelines. 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.

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 DIRECTOR:
Thomas Pike, IR-4 Project Headquarters, 500 College Road East, Suite 201 W, Princeton, NJ 08540, (732) 932-9575 extension 4628, FAX# (609) 514-2612, E-mail: tpke@njaes.rutgers.edu

5. PROPOSED DATES:
Experimental Start: 07/20
Experimental Termination: 11/21
Study Completion: 10/22

6. STUDY DIRECTOR INITIALS: TP

7. STUDY AUTHORIZATION:
Deborah Carpenter, July 1, 2020
Sponsor Representative / Date
Thomas Pike / Study Director / Date

8. GOOD LABORATORY PRACTICE COMPLIANCE:
To determine the magnitude of residues of total clofentazine in or on lychee, this protocol will be employed using appropriate Standard Operating Procedures (SOPs) 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.
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.

*In case the Study Director is not available, contact Dr. Deborah Carpenter (x4637) or Dr. Daniel Kunkel (x4610) at IR-4 Headquarters (732) 932-9575 for guidance.

THIS PROTOCOL COPIED ON COLORED PAPER IS AN EXACT COPY OF THE ORIGINAL.

What do we need from FRDs during review?

- Use Pattern
 - Does it fit into the way the crop is grown in your region?
If not, inform the Study Director.
- Plot Space
 - Do you have space to meet sampling requirements, especially if one is a decline or a processing trial?
 - Can you assure that your plots will not be treated with the same or similar chemicals?



What do we need from FRDs during review?

- Multiple Trials
 - If >1 has been assigned to you in same study
 - Or if another FRD will conduct a trial <30km (18.6 miles) from you
 - Can you differentiate trials in accordance with the current requirements?
- Time Conflicts
 - Will there be any time conflicts with other trials assigned to you? (Do you need to be in two locations at once?)
- Test Substance
 - Is the amount of TS indicated in Part 23 sufficient for your trial(s), and is the “date needed” correct?

Protocol Review Strategies-Will Meeks

Important Protocol Sections

- 10: Test System/Crop
- 15: Application Treatments and Timing
- 18: Field Residue and Sample Inventory
- 23: Field Personnel / Field Research Location (with test crop specifics for trials)

Example: Sufloxaflor/Quinoa 11653.19-ID174

10. TEST SYSTEM/CROP:

QUINOA - Use a commercial variety. Report: variety, source, lot number, date received, and other descriptive information if available.

Protocol Review Strategies-FRD

15. APPLICATION TREATMENTS AND TIMING:

Trt#	Treatment	Target Rate of active ingredient	Target Rate of formulated product*	Application Type	Spray Volume Range**
01	Untreated	Not Applicable	Not Applicable	Not Applicable	Not Applicable
02	SULFOXAFLO	0.086 lb ai/acre	78 grams / acre	Foliar broadcast	20-50 GPA

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

**GPA=gallons per acre

If an adjuvant is used as a trial separation criteria, use a Chemical Producers and Distributors Association (<https://cpda.com/adjuvant-certified-program/>) certified adjuvant, see Section 11.4.

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.

All trials except Decline Trial 11653.19-OR311: Make three foliar applications at an interval of 14 (±1) days with the last application 7 (±1) days before harvest.

Decline Trial 11653.19-OR311: Make three foliar applications at an interval of 14 (±1) days with the last application 1 day before the first of multiple harvests.

Protocol Review Strategies-FRD

18. FIELD RESIDUE SAMPLE INVENTORY:

18.1 All Trials except Decline Trial 11653.19-OR311:

SAMPLE ID	TRT#	TREATMENT	DAYS AFTER LAST APPLIC.	MINIMUM SAMPLE SIZE	CROP FRACTION
A	01	Untreated	NA	2 lb.	Seed
B	01	Untreated	NA	2 lb.	Seed
C	02	SULFOXAFLO	7 (+1)	2 lb.	Seed
D	02	SULFOXAFLO	7 (+1)	2 lb.	Seed

23. FIELD PERSONNEL / ID NO. / REGIONAL/ARS FIELD RESEARCH LOCATION

Field trials will be conducted at the appropriate sites to support the establishment/maintenance of a national residue tolerance. 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
John Harvey, USDA-ARS, Yakima Agricultural Research Laboratory, 5230 Konnowac Pass Road, Wapato, WA 98951-9651; (509) 454-6553, FAX# 509-454-5646; e-mail: John.Harvey@ars.usda.gov	11653-19-WA*383	ARS	Quinoa
Will Meeks, University of ID, Twin Falls Res. & Ext. Ctr., 315 Falls Ave., Evergreen Bldg., Twin Falls, ID 83301, 208-736-3630, Fax: 208-736-0843, Cell: 208-308-5177; e-mail: wmeeks@uidaho.edu	11653.19-ID174	WSR	Quinoa

Will Meeks' Planning Tools

Study ID	Where	Book Rec'd	Chem Rec'd	Plant Date	Application Dates	Harvest Dates	Sample Dates	Sample Shipped	Notebook Shipped
Linuron/Bean (Lima)	Kimberly	Yes	3/3/2020	6/10/2020	11-Jun	14-Sep			
11772.20-ID182									
Carolyn Jolly									
Emamectin Benzoate/Bean (Lima)	Kimberly	Yes		6/10/2020	28-Aug	14-Sep			
12675.20-ID183					4-Sep				
Thomas Pike					11-Sep				
Abamectin/Beet (Sugar) Decline	Kimberly	Yes	4/8/2020		8-Sep	18-Sep			
12757.20-ID186					15-Sep	22-Sep			
Thomas Pike						29-Sep			
						6-Oct			
						13-Oct			
Flonicamid/Onion	Parma	Yes	3/2/2020		26-Aug	2-Sep			
08550.20-ID181					2-Sep				
Kenneth Samoil									

Will Meeks' Planning Tools

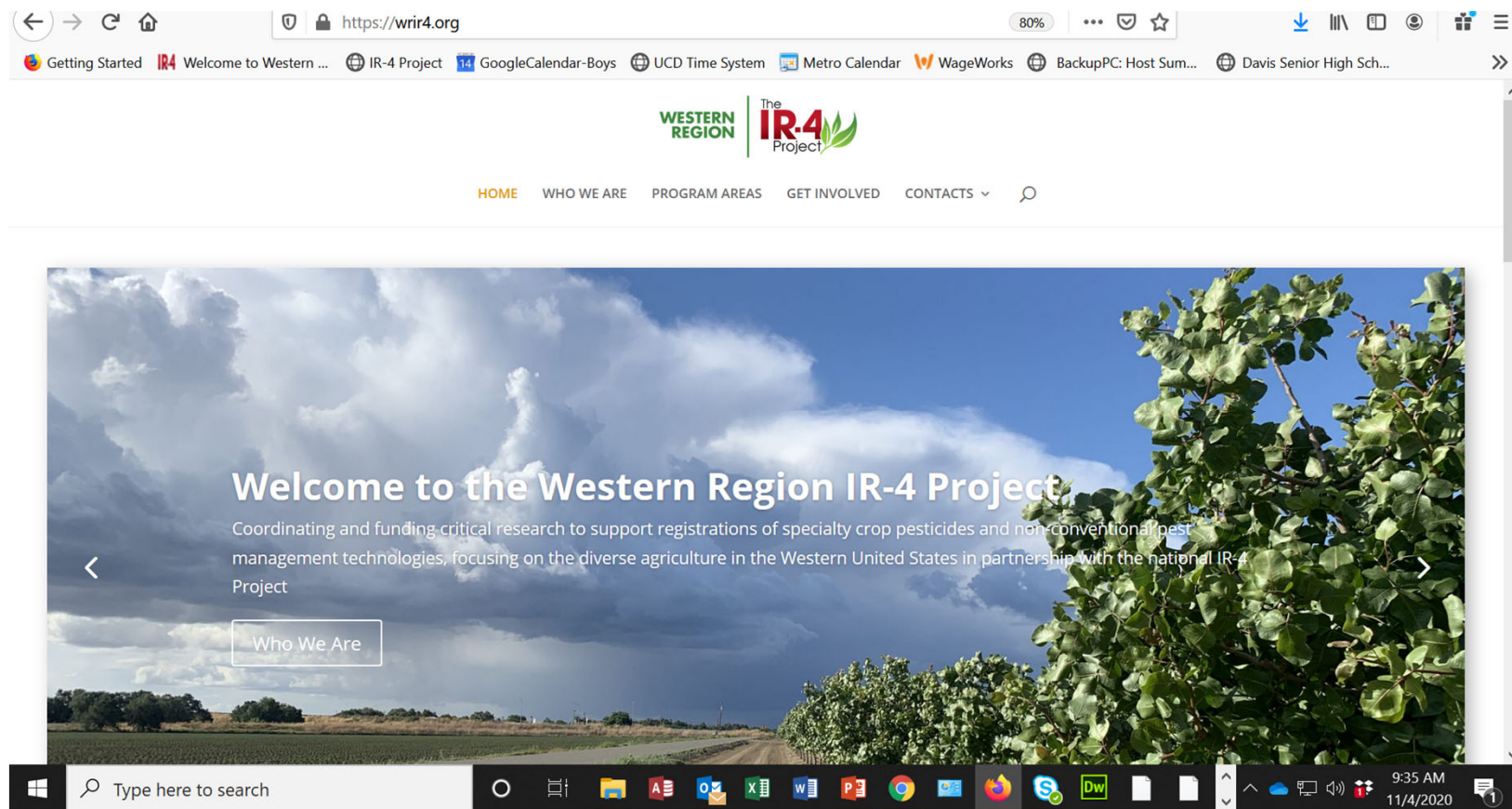
Monday							Tuesday							Wednesday							Thursday							Friday							Saturday							Sunday						
2							3							4							5							6							7							8						
							Civic Holiday (Canada) Full Moon							6:00 - 2:00 Parma PU																					check in													
9							10							11							12							13							14							15						
							Hop App #3 187 Drive							Parma UV 6:00 - 7:00							checked Hwy Dist + Books + Kindly							Glenns Ferry PU 6:00 - 2:30							49 x 5 = 250							Parma x 2 = 340 6:00 - 1:00 = 500						
16							17							18							19							20							21							22						
10 days 11							office							Hwy Dist Mts 4:00 - 4:30							Parma PU 6:00 - 3:00							4:30 Hop App #1 188 6:00 - 7:00							craft sho													
23							24							25							26							27							28							29						
craft sho							scout ??							scout ??							Flonicaid Onion App #1 Parma Dry Down Sample							Hop Harvest 187							Hop Dry Down 187													
30							31																																									
Archery Deer stalk							Hop App #2 188 Parma 6-7 UV																																									

July	August	September	October	November	December	January	February	March	April	May	June
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
1 2 3 4	1 2 3 4	1 2 3 4 5	1 2 3	1 2 3 4 5 6 7	1 2 3 4 5	1 2	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3	1	1 2 3 4 5
5 6 7 8 9 10 11	5 6 7 8 9 10 11 12	6 7 8 9 10 11 12	4 5 6 7 8 9 10	8 9 10 11 12 13 14	6 7 8 9 10 11 12	3 4 5 6 7 8 9	7 8 9 10 11 12 13	7 8 9 10 11 12 13	4 5 6 7 8 9 10	2 3 4 5 6 7 8	6 7 8 9 10 11 12
12 13 14 15 16 17 18	9 10 11 12 13 14 15	13 14 15 16 17 18 19	11 12 13 14 15 16 17	15 16 17 18 19 20 21	13 14 15 16 17 18 19	10 11 12 13 14 15 16	14 15 16 17 18 19 20	14 15 16 17 18 19 20	11 12 13 14 15 16 17	9 10 11 12 13 14 15	13 14 15 16 17 18 19
19 20 21 22 23 24 25	16 17 18 19 20 21 22	20 21 22 23 24 25 26	18 19 20 21 22 23 24	22 23 24 25 26 27 28	20 21 22 23 24 25 26	17 18 19 20 21 22 23	21 22 23 24 25 26 27	21 22 23 24 25 26 27	18 19 20 21 22 23 24	16 17 18 19 20 21 22	20 21 22 23 24 25 26
26 27 28 29 30 31	23 24 25 26 27 28 29 30 31	27 28 29 30	25 26 27 28 29 30 31	29 30	27 28 29 30 31	24 25 26 27 28 29 30 31	28	28 29 30 31	25 26 27 28 29 30	30 31	27 28 29 30

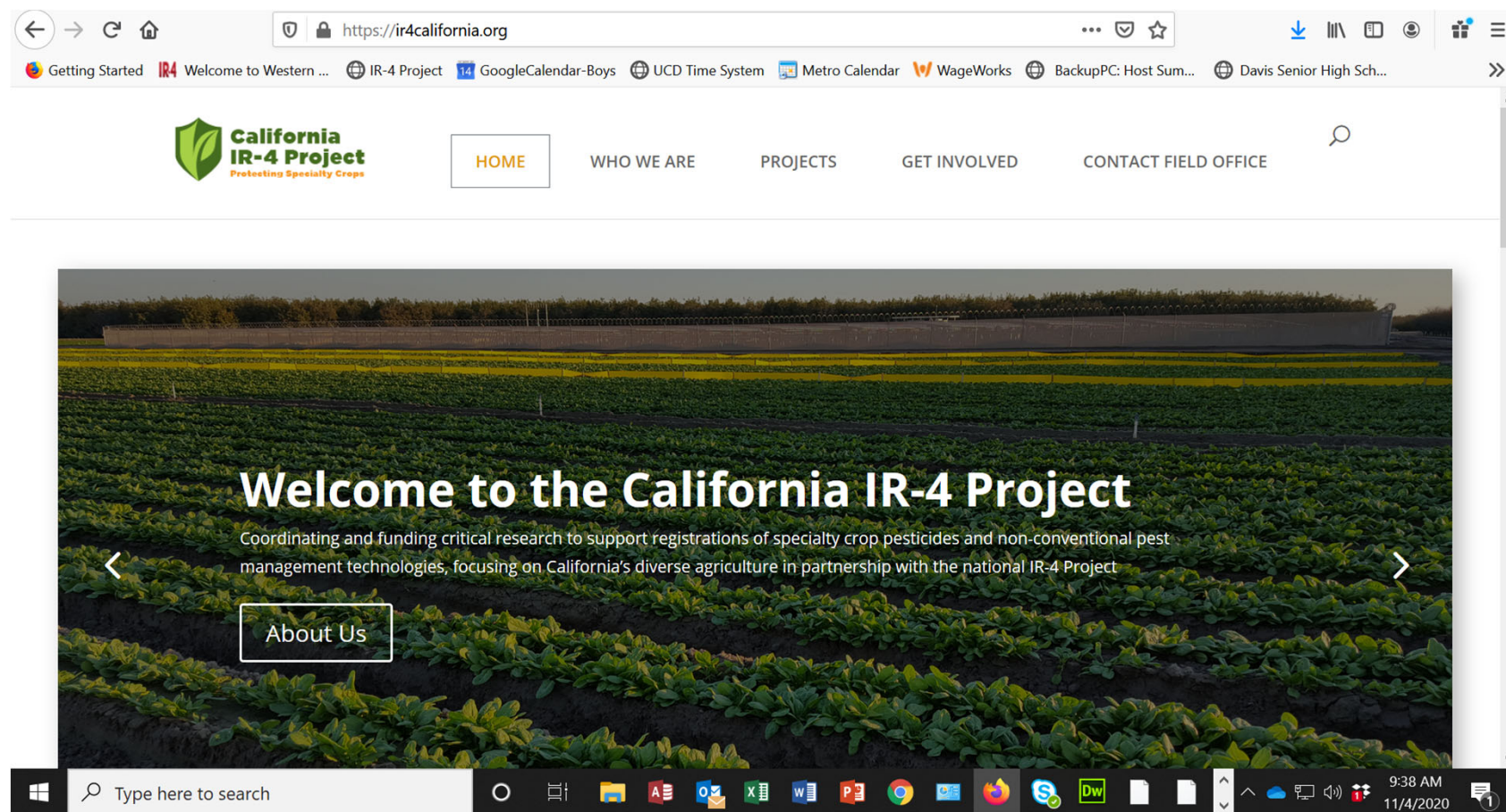
Preparing for 2021 trials

- Review the protocol (previously discussed)
- Early trials – what is needed?
 - Study
 - When: before December, December, January, February?
- Hemp trials – be aware of permitting, extra costs and security

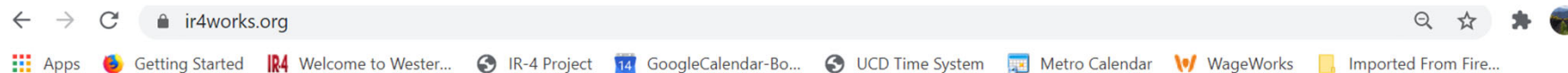
New WR Websites



New WR Websites



New WR Websites



[HOME](#) [FRDs](#) [PROJECTS](#) [SLRs](#) [CONTACTS](#) [SEARCH](#)



Highlights from a Challenging Year



David Ennes, KARE

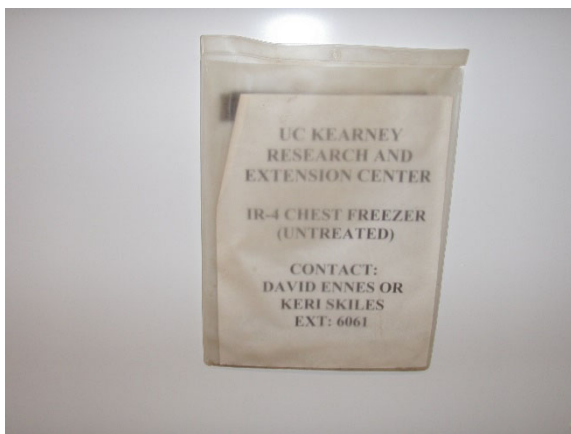


Guy Kyser, UCD



Dani Lightle, OSU

Malfunctioning Freezer at UC KARE



Untreated Freezer Identification Sign



New Untreated Freezer Ordered 7-22-20 Received 10-26-20



Treated Freezer Identification Sign



Storing untreated and treated samples in treated freezer after untreated freezer quit working. All samples double bagged and separated in freezer with a partition



Vertebrate Pest Challenges at UCD





















IR-4 RESEARCH STUDY

FIELD ID NO.: 12834.20-CA61

Target Crop: Industrial hemp

Treatment No.: 02

TEST SUBSTANCE: Flutianil

Rate: 0.03 lb ai/acre

Field Research Director: Guy Kyser

Address: UC Davis Dept of Plant Sciences
Shields Ave



Meanwhile at OSU...

An eerily similar
experience with hemp

Pictures from Dani Lightle





QA Reminders for Part 6



You have two options when entering data in these
Databook prompts.

Part 6G TIME MIXED/ BY WHOM and TIME APPLIED/ BY WHOM

Part 6H NAME OF PERSON WHO CLEANED EQUIPMENT: _____

Part 6I APPLICATION WAS MADE BY: _____

Either;

1. The Person Filling out the Bulk of the Notebook Page
2. The Person who Actually Performed the Action



It is always preferable to have someone add the initials identifying someone else performing an action when they are already filling out the bulk of the Databook page.

If the person filling out the narrative initials and dates the bottom signature line, it covers anything written on the page.

BUT,

if the applicator initials the prompt, it must be followed by another set of initial and date. Since initials are considered entries, they need to be **GLP**.

To sum up

- For simplicity, have the person filling out Databook the page be the one who adds the applicator's initials.
- Avoid having two different initials on the signature line. You need only one.
- Identify entries made by other people, it can be difficult for a reviewer to discern who enters what.



Part 6G: Who Initials?

One person records

- KS made all entries
- Application made by DJE

TRT Number <u>02</u>	
NUMBER OF DAYS SINCE PREVIOUS APPLICATION	<u>NA</u>
TEST SUBSTANCE	<u>Outsider 75% WG</u>
BATCH/LOT NUMBER/Container# ¹	<u>V20A-221-1</u>
TIME MIXED/INITIALS	<u>8:15 Am KS</u>
TIME APPLIED/INITIALS	<u>8:17 Am DJE</u>
EQUIPMENT IDENTIFIER	<u>Tractor mounted E+O backpack sprayer</u>
PLACEMENT OF TEST SUBSTANCE	<u>Foliar Broadcast</u>
TANK MIX AMOUNTS	MEASURING EQUIPMENT with INCREMENTS*
CARRIER (starting volume of water)	<u>4500 ml</u>
VOLUME of WATER REMOVED from starting volume (if applicable)	<u>none</u>
TEST SUBSTANCE (formulated product)	<u>2.400 gr</u>
ADJUVANT	<u>5.6 ml</u>
TOTAL VOLUME OF TANK MIX	<u>4505.6 ml</u>
NOZZLE DISTANCE from TARGET	<u>18 inches</u>
PSI AT BOOM	<u>36</u>
INCORPORATION - Methodology and/or Equipment - DEPTH - TIME	<u>over head sprinklers not known (1) 8:50 Am - 10:50 Am</u>
CARRIER SOURCE/TYPE	<u>UCKALE well water</u>
CARRIER pH/TEMPERATURE	<u>6.5 70°F</u>
EQUIPMENT used to MEASURE pH	<u>PH Strip</u>
ORDER IN WHICH ITEMS WERE ADDED TO SPRAY MIXTURE* W=Water, TS=Test Substance, A=Adjuvant *e.g. 1-W, 2-TS, 3-A, 4-W <u>1-W 2-TS 3-A</u>	

If more than one test substance container was received for this trial. If not, only batch or lot number is needed.

ABOVE DATA ENTERED BY: Amin Skiles DATE: 4-29-2020

Part 6G: Who Initials?

Clarify who made which entries

- JC made most entries
- Application made by JK and he entered his initials and dated his entry

NUMBER OF DAYS SINCE PREVIOUS APPLICATION	N/A - first application		TIME OF ADDITIONAL AGITATION (if applicable) e.g. "10:00" or "continuous" or "just prior to application"
TEST SUBSTANCE	clofentezine		
BATCH/LOT NUMBER/Container# ¹	B03050012		
TIME MIXED/INITIALS	8:15 am JK 7/10/20		
TIME APPLIED/INITIALS	8:25 am JC		
EQUIPMENT IDENTIFIER	Solo Mistblower, SN 503678		just prior to application
PLACEMENT OF TEST SUBSTANCE	Foliar directed		
TANK MIX AMOUNTS	MEASURING EQUIPMENT with INCREMENTS*		
CARRIER (starting volume of water)	35039 mL Water	2000 mL grad. cyl., 20 mL incr.	
VOLUME of WATER REMOVED from starting volume (if applicable)	53 mL	1000 mL grad. cyl., 10 mL incr.	
TEST SUBSTANCE (formulated product)	31.28 mL Apollo SC	50 mL grad. cyl., 1 mL incr.	
ADJUVANT	21.90 mL LI 700	100 mL grad. cyl., 1 mL incr.	
TOTAL VOLUME OF TANK MIX	35039.18 mL	A 0.01 mL graduation automatic pipettor with a 1.0-10.00 mL range. Used EPP-03 pipettor.	
APPROXIMATE SPRAY HEIGHT (compared to trees or target height ²)	8 ft. into an 8 ft. canopy	*e.g. 1000 mL grad. cylinder/10 mL incr.	
PSI AT NOZZLES	N/A	ORDER IN WHICH ITEMS WERE ADDED TO SPRAY MIXTURE* W=Water, TS=Test Substance, A=Adjuvant *e.g. 1-W, 2-TS, 3-A, 4-W	
CARRIER SOURCE/TYPE	County Water	1-W, 2-TS, 3-W,	
CARRIER pH/TEMPERATURE	7.0 / 82.1 °F	4-A, 5-W	
EQUIPMENT used to MEASURE pH	paper strips		

¹ If more than one test substance container was received for this trial. If not, only batch or lot number is needed.

² Example: Peak spray height was 15 feet into the canopy of a 15-foot tall tree.

ABOVE DATA ENTERED BY: Jmi Cox

DATE: 7/10/20

PART 6 PAGE 11

Trial Year 2020

Part 6G: 2021 Notebook

Change in 2021 Book

- TIME MIXED/BY WHOM
- TIME APPLIED/BY WHOM
- By whom can still be entered as initials (e.g. JK) as long as person is identified in Part 2

PART 6. APPLICATION RECORDS

G. APPLICATION INFORMATION FOR APPLICATION NUMBER ____ APPLICATION DATE ____

INSTRUCTIONS: Complete a separate form for each application date and for each treatment on one application date (use the Treatment Number as indicated in the protocol).

		TRT Number ____
NUMBER OF DAYS SINCE PREVIOUS APPLICATION		TIME OF ADDITIONAL AGITATION (if applicable) e.g. "10:00" or "continuous" or "just prior to application"
TEST SUBSTANCE		
BATCH/LOT NUMBER		
TIME MIXED/BY WHOM ¹		
TIME APPLIED/ BY WHOM ¹		
EQUIPMENT IDENTIFIER		
APPLICATION TYPE ² (e.g., foliar broadcast, soil directed)		
TANK MIX AMOUNTS		MEASURING EQUIPMENT with INCREMENTS*
CARRIER (starting volume of water)		
VOLUME of WATER REMOVED from starting volume (if applicable)		
TEST SUBSTANCE (formulated product)		
ADJUVANT		
TOTAL VOLUME OF TANK MIX		*e.g. 1000 mL grad. cylinder/10 mL incr.
NOZZLE DISTANCE from TARGET		ORDER IN WHICH ITEMS WERE ADDED TO SPRAY MIXTURE* W=Water, TS=Test Substance, A=Adjuvant *e.g. 1-W, 2-TS, 3-A, 4-W
PSI AT BOOM		
INCORPORATION - Methodology and/or Equipment - DEPTH - TIME		
CARRIER SOURCE/TYPE		
CARRIER pH/TEMPERATURE		
EQUIPMENT used to MEASURE pH		

¹ The identity of the person that performed this task may be entered by the person entering the rest of the data on this page. Initials are acceptable for identification.

² If application type for this application is different than what is indicated in Part 6A, then a new 6A must be completed.

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE ____

Trial Year 2021