

Western Region 2019 Training Webinars

Welcome to the

2019 Western Region Training Webinars

Hosted by the Western Region IR-4 Program

<https://zoom.us/j/259227502>

We will begin at 11 AM Pacific Time

Western Region 2019 Training Webinars

Reminders:

1. **Mute your microphone on your phone or computer**
***6 Mute, *7 Un-mute**
2. **Turn off your video camera**
3. **Send us a chat or email if there are multiple attendees at your location**



Jan 2019: Lookouts from Last Season

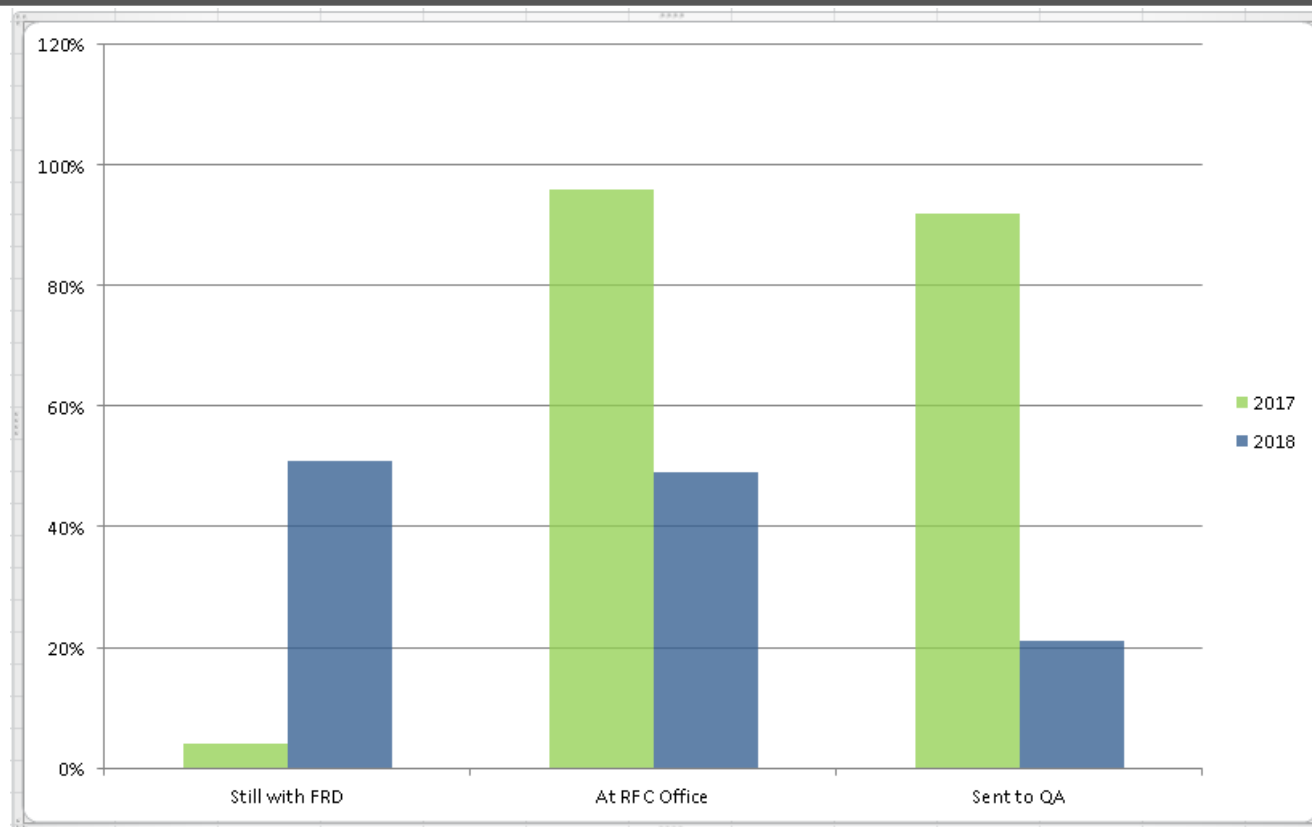


Jan 2019: Agenda

What we'll cover today:

- 2018 Notebook Status Report
- Application Types for 2019
- Check Final Protocols
- Communication with RFC/UC Davis
- GAPS: an FRD panel Discussion
- Cancelled Trials
- Trial Separation: 30/30 Gold Standard
- Notebook Details & QA Reminders

Field Data Notebook Status in the Western Region



2017

- 147/153 received by RFC Office - 96%
- 141/153 off to QA - 92%

2018

- 70/142 received by RFC Office - 49%
- 30/142 off to QA - 21%

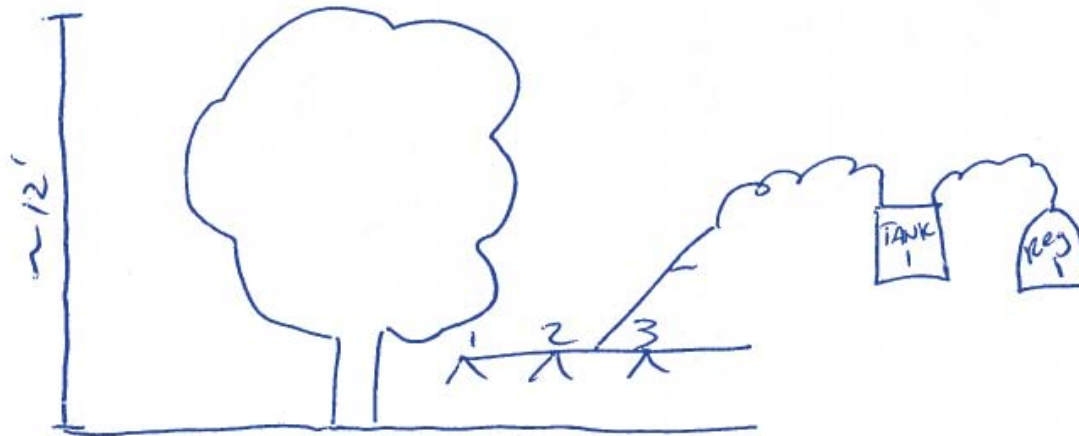
Application Types: Foliar Directed

- Bifenthrin/Coffee, Kiwi, Date
- Greenhouse/Strawberry, Peppers, Tomatoes, Basil
- Luna Sensation (TRIFLOXYSTROBIN +
FLUOPYRAM): Pitaya & Kiwi
- Ziram & Inspire Super (DIFENOCONAZOLE +
CYPRODINIL)/Olive
- Nealta (Cyflumetofen): Peppers, Melons, Squash



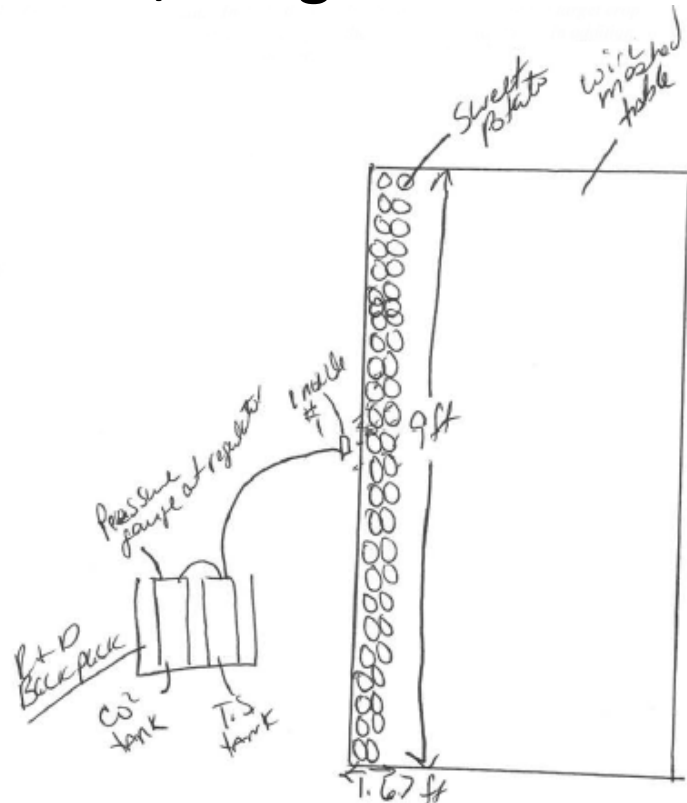
Application Types: Banded

- Flumioxazin/Avocado & Banana
- Diquat/Grape
- Quinclorac/Apple



Application Types: Odd Ball

- Transplants: Ethoboxam/Celery: Foliar in GH
- Strawberries: Fluazinam/Foliar to Mother plants & runners
- Post Harvest/Fungicides: Avocados/Sweet Potato



Check Final Protocols

Notice anything on this Adjuvant Verbiage?

15. APPLICATION TREATMENTS AND TIMING:

15.1 These treatments shall be applied in all trials except processing trial 19-CA79:

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	ZIRAM	6.08 lb ai/acre	8.0 lb/acre + adjuvant*** (3629 grams/acre)	Airblast or Mist Blower or High Pressure Handgun to Foliage	80-150 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

***All applications shall include an adjuvant (at a rate of 25%v/v) unless the absence of an adjuvant has been chosen to differentiate two trials conducted by the same Field Research Director (see Part 11.4). Include a copy of the adjuvant label in the Field Data Book.

The Importance of Communication

Always better to ask than risk a trial failure...

- Planting too late
- Harvesting too early/late
- Applications at wrong time, wrong amount
- PHI differences
- Not drying enough
- Samples thawing from holds in overnight shipments or freezer failures

GAPs: How FRDs figure out challenging crops



Onion Issues

Irrigation & Stand Establishment



Onion Issues



Weeds f(slow germ)



Quinoa: Mastering an ancient grain

Growing a “weed” and getting it to seed?



Hydroponic Setup & Challenges



Cancelled Trials

What to do? Here are some tips

1. Part 3 - Add note trial cancelled and no more data entered after cancellation date

Prometryn/Pepper (Bell & Nonbell
ID No. 12036.17-CA117
Leach

FIELD ID NO: _____
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/email to discuss multi-trial differentiation options with the Study Director; call/email to inform Study Director of deviation; call/email to the laboratory to notify that samples will be shipped tomorrow), 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 goes in one of the Field Data Books.)

ENTRY DATE/ INITIALS	NOTES (include date of event described)
12-14-17 NL	On 6-2-17 this trial was terminated and nothing further documented. NL 12-14-17

Cancelled Trials

Tips continued

2. Part 4 - If reusing test substance – keep original records and place copies in cancelled book
3. Part 10 – include copy of amendment cancelling the trial
4. Send notebook to RFC office

Trial Separation: The 30/30 Gold Standard

What's the 30/30 Standard?

1. 30 days between trial initiation
2. 30 km (~20 miles)
3. We have our criteria, but these are consistent with EU and International work

Notebook Details: Date/Initial on Day of Entry

Pre-entering data before application?

Can help save time, but still needs to follow GLPs and reflect actual study

- Data must be dated and initialed on date entered.
- Identify who typed pre-entered entries and when.
- Date and initial subsequent entries on the date of entry.
- Date and initial pages on date of hand-written data.

Notebook Details: Date/Initial on Day

Pre-entering data

- Date and initial statement saying when typed entries were made.
- Confirm event occurred as described with date and initials.

Fluazinam / Papaya
ID No. 12480.18-H1404
FIELD ID NO: Kam
IR-4 FIELD DATA BOOK

JK 5/17/18
This type written data was pre-entered
by James Kam on 15 May 2018.
It has in fact occurred and is accurate
for the application. JK 5/17/18

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

I. PASS TIMES FOR APPLICATION NUMBER 1

APPLICATION DATE May 17, 2018 (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).

TREATMENT <u>2</u>			TREATMENT <u> </u>		
PASS NUMBER	TIME (sec)	DIRECTION	PASS NUMBER	TIME	DIRECTION
1	<u>105.06</u>	<u>N > S</u>	1	*	*
2	<u>105.41</u>	<u>S > N</u>	2	*	*
3	*	*	3	*	*
4	*	*	4	*	*
5	*	*	5	*	*
6	*	*	6	*	*
7	*	*	7	*	*
8	*	*	8	*	*
9	*	*	9	*	*
10	*	*	10	*	*
11	*	*	11	*	*
12	*	*	12	*	*
TOTAL PASS TIME <u>210.47</u> Seconds x discharge rate = <u>5,900.955</u> ml \rightarrow <u>1.05</u> % of actual application rate					

ABOVE DATA ENTERED BY: James Kam DATE: 5/17/18

PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION AND IDENTIFY WHO PERFORMED IT:

(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 canopy of the trees.")

Overage = 1.40 mls Actual plot volume = 6,062.47 mls

Test substance was applied to the treated test plot in two passes; one pass on each side of the treated row. The spray was applied to the fruit column and foliage in an up/down and side-to-side manner to ensure uniform coverage. The fruit column was thoroughly covered by the output from the sprayer. I walked the row with the aid of a metronome set at 60 bpm. Julie measured the overage left in the tank to determine actual spray volume applied to the plot. See Part 3 for a more detailed explanation.

APPLICATION WAS MADE BY: James Kam

NARRATIVE ENTERED BY: James Kam

DATE: 5/17/18

PART 6 PAGE 10

Trial Year 2018

Reminder: Applications to Transplants

New weather data requirements for 2019

-
- 9A Weather records are required from the date of planting or transplanting of annual crops into the test plot(s), or for a minimum of one month prior to the first application onto perennial crops, until last residue sample collection. **If the protocol requires that transplants are treated with the test substance prior to transplanting, then weather records are required from the date of seeding.** If transplants are used for an IR-4 trial but no test substance applications are made prior to the transplanting, then temperature/humidity records are NOT required for the period prior to transplanting.
-

If transplants are obtained from a grower, weather records **are not** required from date of seeding. May need to submit a protocol deviation if you don't grow your own transplants.

This applies to 2019 Study 12075 Ethaboxam/Celery

Notebook Details: Multiple Page Docs

TIP: Initial/date 1st page with # of pages

Safety Data Sheet

Diquat / Sunflower
ID No. 12064.17-NM297
Hamilton

syngenta®

REGLONE® DESICCANT

Date: 9/26/2016
Replaces: 6/17/2015

Ⓟ 2-13-17 7 pages

1. PRODUCT IDENTIFICATION

Product identifier on label: **REGLONE® DESICCANT**

Product No.: A12872A

Use: Herbicide

Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Corrosive to Metals: Category 1
Oral: Category 4
Specific Target Organ Toxicity: Repeated Category 2

Signal Word (OSHA): Warning

Hazard Statements: May be corrosive to metals
Harmful if swallowed
May cause damage to organs through prolonged or repeated exposure

Reminder: Document Critical Events

Please document in your notebook

- Trial failures
- Phytotoxicity in crop
- Test substance issues
- Replacement crops

Phone calls to Study Directors are great, but don't forget to follow up with email confirmations and add to notebook

Applications: Avoiding Contact

Protocol: Avoid contact with trunk or foliage?

All trials: Make one shielded/hooded application to the row middles, to seeded or transplanted broccoli, at 30 (+/-2) days before harvest.
Do not allow the spray solution to contact the plants.
DO NOT concentrate the application rate. The rate specified is for treated area.

- Confirm you did this
 - Add note to application description
- e.g. Glufosinate and Sulfentrazone studies

PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION AND IDENTIFY WHO PERFORMED IT:

(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.")

Trt #2 Overage = 2410 mls Actual plot volume = 9600.5 mls

Test substance was applied to the treated test plot in six passes; one pass on each side of the treated row. The boom was held in a horizontal position aimed at the soil and held at a height to obtain the maximum 6-foot swath. Applicator walked the row with the aid of a metronome set at 87 bpm, taking one step for beat. I measured the overage left in the tank to determine actual spray volume applied to the plot. See Part 3 for a more detailed explanation.

NOTE: I avoided spraying foliage, fruit and trunks of the trees to minimize potential plant injury. JK 6/26/18 4k 6/26/18

APPLICATION WAS MADE BY: James Kam

NARRATIVE ENTERED BY James Kam James Kam DATE: 5/25/18

Phytotoxicity

Glufosinate/Grasses in Idaho



Phytotoxicity

Glufosinate/Grasses in Washington



Healthy Untreated



Phyto in TRT 02



Phyto in TRT 03

Crop Failure... Stuff Happens

Heat, irrigation problems, hail, chemistry, etc.



Water: NM



Hail: ID



Herbicide: CA

Test Substance Issues

Is it ready for the application?

- Name on label different than protocol
 - Need written documentation to connect the dots (CoA, SDS, email from Study Director)
- Exp date/storage conditions not on label
- No CoA received
- New CoA issued but new expiration date and batch number not transferred to the label
- Storage temps: If CoA differs from label, amend label. CoA trumps any info on the TS container label.

Reminder: Sample Shipping via Carriers

Sending via FedEx

- Let RFC Office know first
- Use our account
 - We get a substantial discount
 - Don't use First Overnight service
 - Use Standard or Priority Overnight



\$64 5 lb pkg FedEx First Overnight (no discount)
\$16 FedEx Priority Overnight

WR 2019 Webinars

Questions?

Announcements?

Comments/Feedback?

Next Training Session

DATE: May 14th
TIME: 11:00 am – 12:00 pm PDT
AUDIENCE: All

Topics: TBD

Thank you for attending

Training documentation will be provided

Concerns, Questions, Feedback

Mika Tolson, Stephen Flanagan and Michael Horak

(530) 752-7635, 752-7634

wrfield@ucdavis.edu

Post-Meeting Survey

1. Pops up when the webinar is finished
2. Please fill it out 😊
3. Your feedback is important to us and will help us improve future training webinars.