

October 2019: Agenda

What we'll cover today:

- Preparing for a QA Visit
- Test substances and labels
- Rounding
- When Things Go Wrong
- Crop Destruct
- Application overage: Reality Check
- Representative Samples

PREPARING FOR A QA VISIT

Sherita Normington
Western Region Webinar
October 15, 2019

“By failing to prepare, you are preparing to fail”
- Benjamin Franklin

What I will cover

- How I prepare
- What I expect of Field Research Directors
- Examples of what can go wrong when not prepared

How QA prepares

- Notify FRD of targeted studies
- Set up inspection date, time and location with FRD
- Make travel arrangements

My preparation

- Print out protocol & all applicable amendments
- Print out field application worksheet
- Read protocol & amendments and note important points

IR-4 NATIONAL QUINCLORAC

1. PROJECT TITLE: QUINCLORAC: Magnitude of the Residue on APPLE

2. JUSTIFICATION AND OBJECTIVES:
IR-4 has received a request for the minor use of quinclorac on apple for control of field and hedge bindweed, Canadian thistle, barnyard grass, crabgrass and horse nettle.
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 establish a pesticide tolerance.

3. SPONSOR/TESTING FACILITY NAME: A...
IR-4 Project Headquarters, 500 College...
514-2612.

4. STUDY DIRECTOR:
Grace Lennon IR-4 Project...
X4627, FAX# (609) 5...

5. PROPOSED D...
Experiment...
Study...

Field Application Worksheet

12570 Quinclorac Apple
Grace Lennon
1ute 1TRT
herbicide
min 15ft buffer
Quinclorac 4L 3.886 ai/gal EPA# 42750-169
CA# 8407-01-V
TRT 02 0.37586 ai/gal 374 ai/gal
2pts CC/acre Banded to floor 10-406PA
2 apps @ 30±3 days 30±3 day PHI
3ft min band

Sampling
2 samples/plot
high, low, untreated, exposed
min 400 Cut all into 1/2" dia
if > 800 g/l + retain opposite plot
monitor temp if > 1 hr to freezer

Field Research Director Preparation

- **Protocol/applicable amendments and read them!**
 - Signed protocol may not be same as any drafts you may have read
 - Protocol requirements can change
 - Call the Study Director if you have questions and document anything that may apply to what I am watching

Note important protocol details

- Will Meeks has a cheat sheet to identify important parts of the protocol
- Highlight or write in margins

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	BIFENTHRIN	First application: 0.1 lb ai/acre Applications 2 and 3: 0.2 lb ai/acre	Ap. 1: 453.6 grams/acre + adjuvant*** Aps. 2/3: 907.2 grams/acre + adjuvant***	Foliar	50-100 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 recommended by the adjuvant label 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.

IR-4 Protocol Summary

Chem/crop _____

ID# _____

Study Director _____

Trial Location _____

Application Type _____

Application Rate _____

Application interval timing/phi _____

Application dates _____

Harvest amount/weight and # of resistance or other chemicals that might interfere _____

Harvest _____

17. RESIDUE SAMPLE COLLECTION: *two*

All trials: Collect four samples from each plot. Each sample should be representative of the entire plot (except plot ends). Starting with the untreated plot, harvest at commercial maturity. Collect fruit from several places on at least 4 trees. Each sample should be collected during a separate run through the entire plot. Olives should be impartially picked from high, low, sheltered and exposed throughout the treated plot excluding the end trees. Avoid sampling from row ends.

Remove pits from fruit and collect at least 2 lb of fruit (but preferably not more than 3 lb) per sample. Process untreated sample first. Record the length of time from completion of the pit removal to placement in a cooler for each sample in Field Data Book Part 7 A.2.

Follow proper handling practices with clean or gloved hands and clean tools to prevent transfer of pesticide residue from one sample to another. If practical, 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. It is acceptable to place the samples within new, sealable plastic

FRD preparations

- Sign Part 2A of the Field Data Book
- Test substance GLP characterized
 - Properly labeled – Name, Lot/Batch #, Expiration date, Storage conditions
 - Identity between protocol vs label vs Certificate of Analysis
 - Can you find it in your storage area?

FRD Preparations

- Adjuvant properly labeled – identity, concentration, expiration date, storage
- Adjuvant label in FDB
- Plot map completed
- Plot markers in place
- Trial differentiation if needed
- SOPs available
- Do a dry-run

Checklist of items for the field

Julie Coughlin's Spray Checklist

SPRAY CHECKLIST – BANANA / RELY

SAFETY GEAR

Hat
Gloves
Tyvek
Boots
Sunglasses
Sunscreen

SPRAY EQUIPMENT

CO2 backpack
CO2 tank
CO2 regulator
Spray boom
3-liter spray bottles (2)
3-liter spray head
Extra nozzles and screens
Plastic beakers (4)
Graduated cylinder (2000 mL, 1000 mL,
500 mL, 250 mL, 100 mL, 50 mL)
Funnel small
Soap
Paper Towels
Rely 280
Unfoamer
Ammonium Sulfate
Water Container
SS Beaker
2 rubbermaid buckets
Wrenches and Screwdriver
Mixing Spoon

WEATHER EQUIPMENT, ETC.

pH paper
Soil thermometer
Wind meter
Humidity/Temp. Recorder
Metronome / Stopwatch

MISC.

Field data book
SOP's
Pen
Digital Camera
Plastic bag for trash
Water Bottle
Sharpie Pen
WPS Posting sheet
Cooler bag for ts
Hobo
Hobo Shuttle
EPP-02 pipettor and tips

SAMPLING

2 coolers with blue ice
2 Hobos for coolers
Sample Bags (labeled)
Home depot buckets (2)
Kitchen trash bags (4)
Cutting Board and Knife (2)
Tyvek suits for re-entry into 'TRT' plot

Inspection Day

- Don't change the way you do things
- Be prepared for QA to verify your calculations and tank mix preparation...things may take longer
- Be prepared to complete parts of the field data book for the events I watched
- If you address findings during the inspection
“No response needed”

Failing to prepare

- Plot is 6 grape vines instead of 14
- Wrong adjuvant being used
- Wrong volume of adjuvant being used
- Different applications have different rates
- Not enough test substance if something goes wrong
- No cutting board and knife to cut samples in 1/2s or 1/4s
- Didn't know output recheck needed

Prepare to succeed

- We all need to prepare to be successful
- Preparation helps for a smooth, stress-free inspection
- A little preparation up front saves time in the end
 - Extra documentation
 - Failed trials
 - Emails/phone calls
 - Protocol deviations

Uh Oh

When Things Go Wrong

- For Example
 - Test substance spills
 - Application equipment malfunctions
 - Crop failures
 - Phytotoxicity
 - Field researcher malfunctions...



Uh Oh

What To Do?

- Contact Study Director and Regional Field Coordinator
 - Factually describe what happened
 - Not blaming
 - Followup needed
 - Resources
 - More test substance, new trial, etc.
 - Documentation in logs/notebook/photos
 - Other next steps and recommendations
 - Prevention Strategies

Next Training Session

National Education Conference

February 25-26, 2020

San Diego, CA

Next WR Training Webinar

DATE: Early Spring TBD

TIME: 11:00 am – 12:00 pm PDT

AUDIENCE: All



Thank you for attending

Training documentation will be provided

Concerns, Questions, Feedback

Martin Beran and Sherita Normington

(530) 754-8525, 752-9493

Mika Tolson, Stephen Flanagan and Michael Horak

(530) 752-7635, 752-7634

wrfield@ucdavis.edu