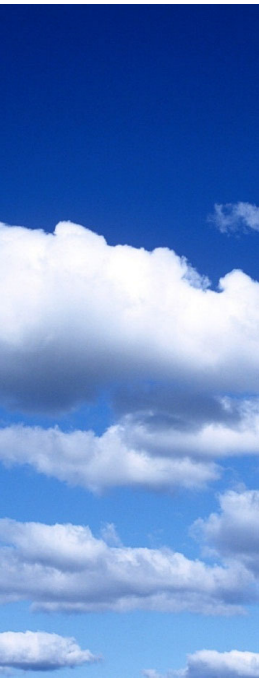
IR-4 Training Webinar

July 6th

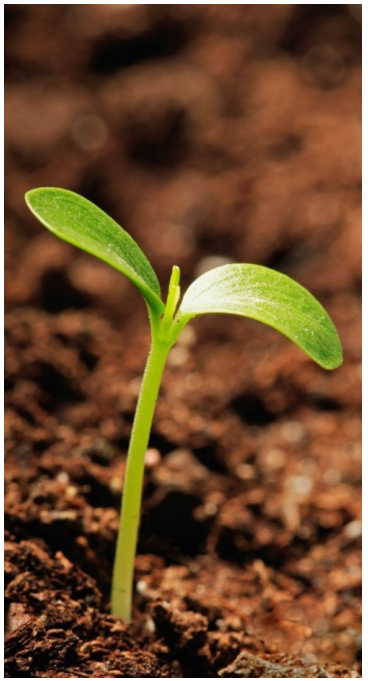
We will start
at 11:00 am PT

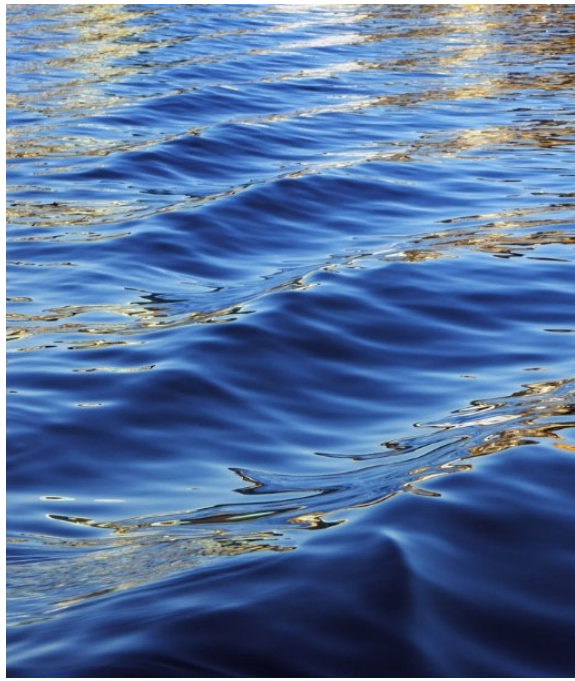
The Fruits of Summer



2022 IR-4 Training Webinars

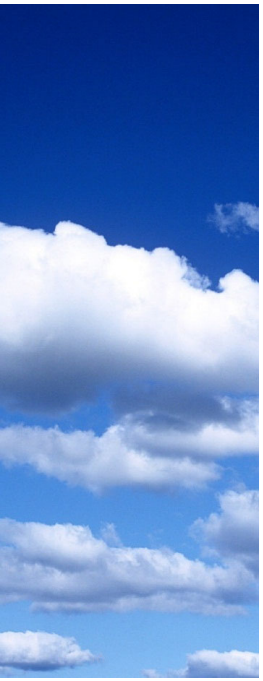
July





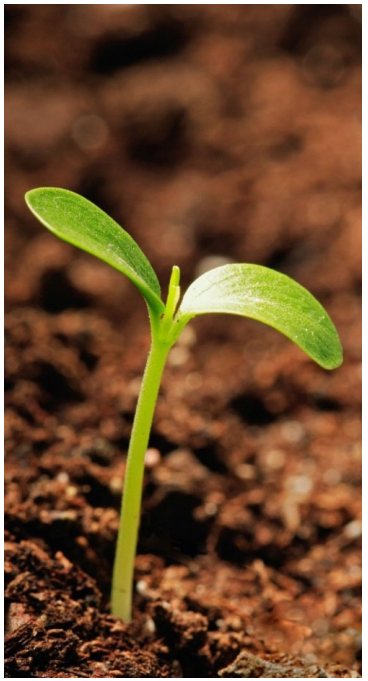
IR-4 Training Webinar: July

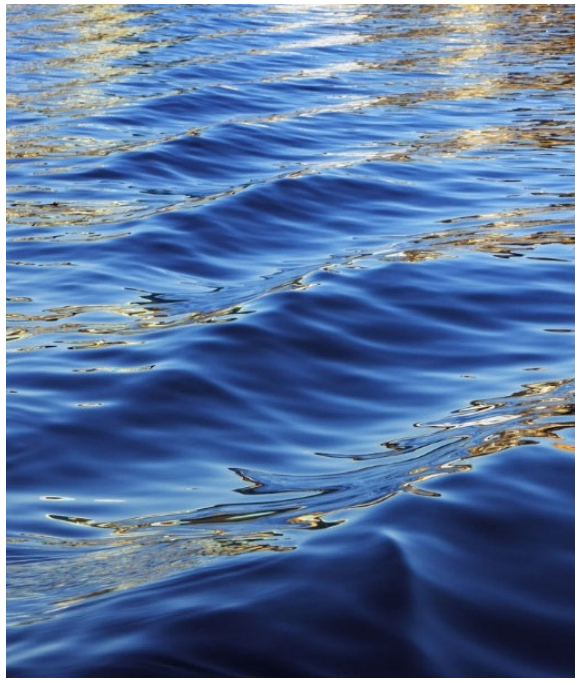
- What QA looks for when conducting field inspections
- Safety considerations while traveling
- When dirty samples arrive at the lab
- Advisory on application types #2004-02
- Trial tracking for Canadian trials
- QC review recommendations



Field Critical Phase Inspections

Sherita Normington, Western Region QA





Field Critical Phase Inspections

What Does QA Look At?

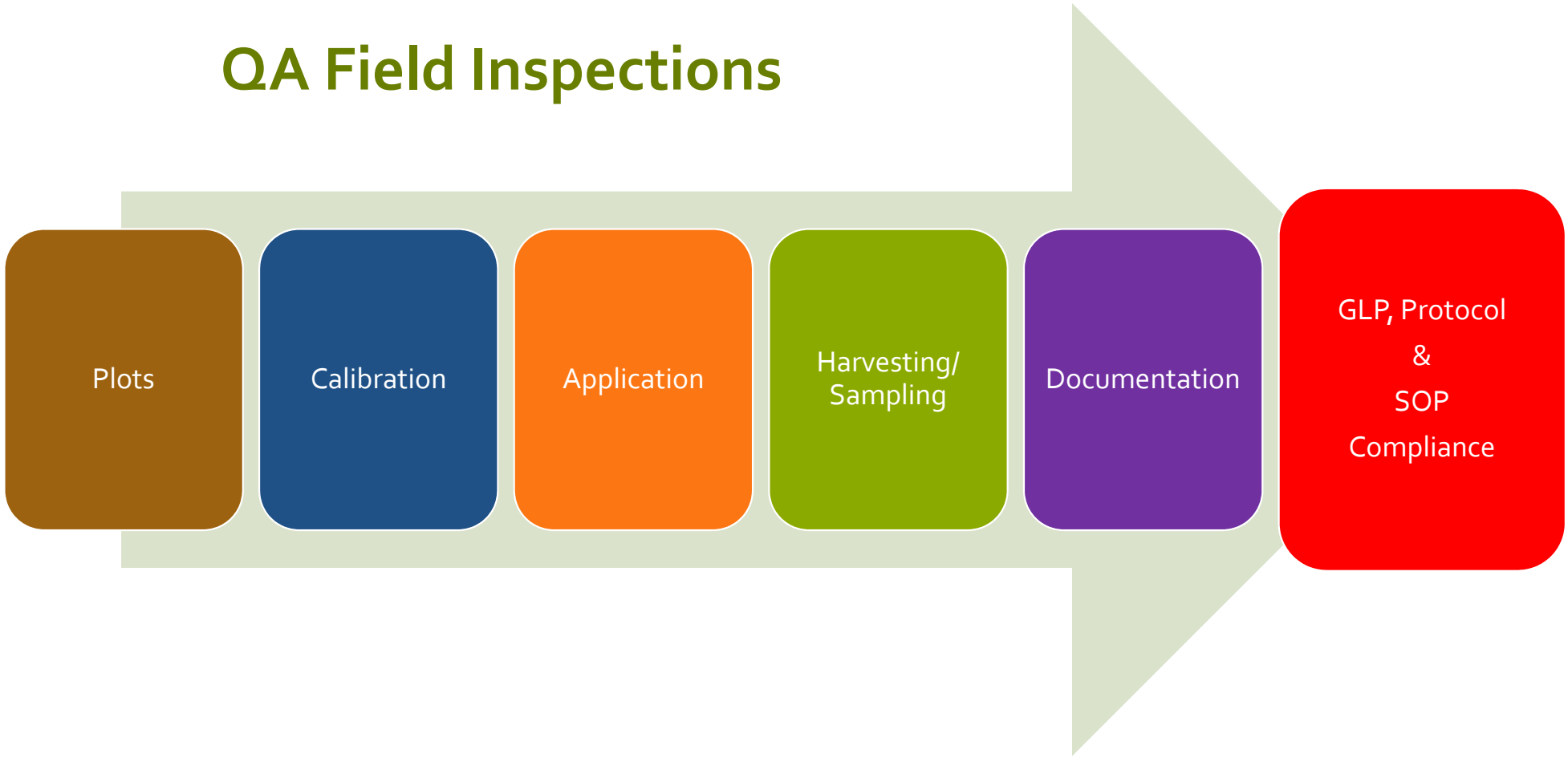
Quality Assurance's Role

- Responsible for monitoring each study to assure management that the facilities, equipment, personnel, methods, practices, records and controls are in conformance with the regulations.

- Report any findings, problems, recommended actions, and corrections taken.

- Does the trial follow the GLPs, protocol and SOPs?

QA Field Inspections

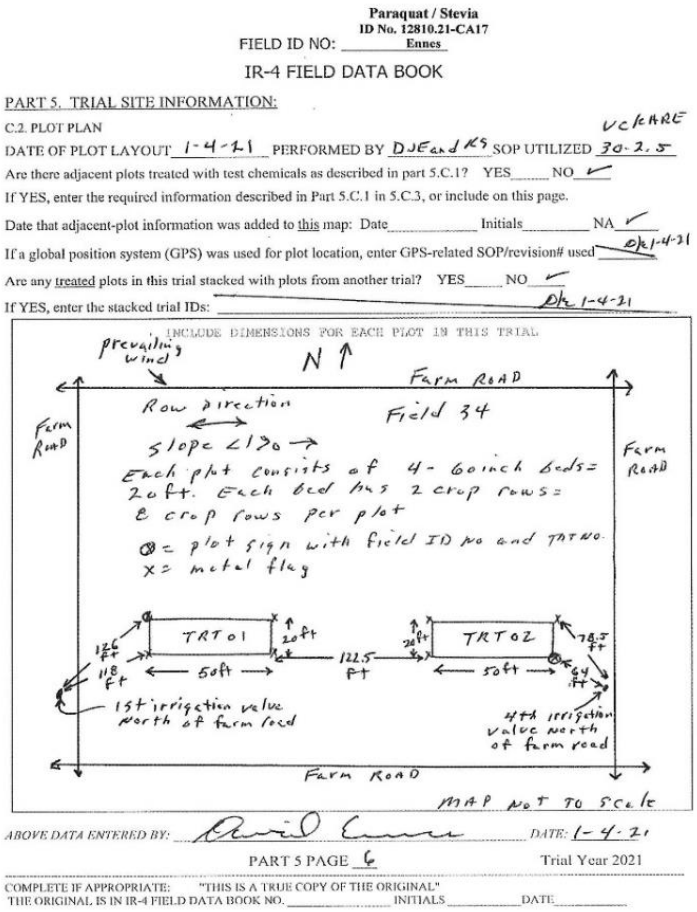


Plot Map

- Plot dimensions, north direction, slope direction and %, # of rows
- Plot location
- Buffer distance

Plot Markers

- Field ID
- TRT # or name


Paraquat / Stevia
ID No. 12810.21-CA17
FIELD ID NO: Ennes

IR-4 FIELD DATA BOOK

PART 5. TRIAL SITE INFORMATION:

C.2. PLOT PLAN

DATE OF PLOT LAYOUT 1-4-21 PERFORMED BY DJE and KS SOP UTILIZED 30.2.5

Are there adjacent plots treated with test chemicals as described in part 5.C.1? YES____ NO ✓

If YES, enter the required information described in Part 5.C.1 in 5.C.3, or include on this page.

Date that adjacent-plot information was added to this map: Date____ Initials____ NA ✓

If a global position system (GPS) was used for plot location, enter GPS-related SOP/revision# used DJE 1-4-21

Are any treated plots in this trial stacked with plots from another trial? YES____ NO ✓

If YES, enter the stacked trial IDs: DJE 1-4-21

INCLUDE DIMENSIONS FOR EACH PLOT IN THIS TRIAL

ABOVE DATA ENTERED BY: [signature] DATE: 1-4-21

PART 5 PAGE 6 Trial Year 2021

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"
THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO.____ INITIALS____ DATE____

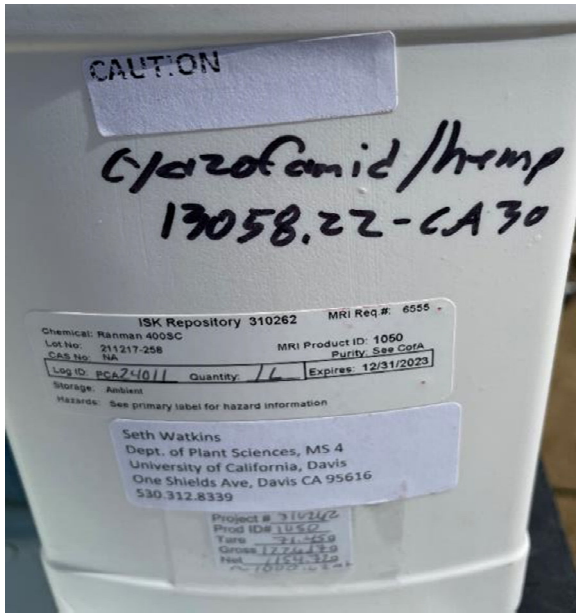
SN

Sprayer Calibration

- Output Times & Volumes
- Speed calibration
- Calculations
  - Output
  - GPA
  - Target pass time
  - Tank mix volumes
    - Carrier
    - Test substance
    - Adjuvant
- Independent calculation

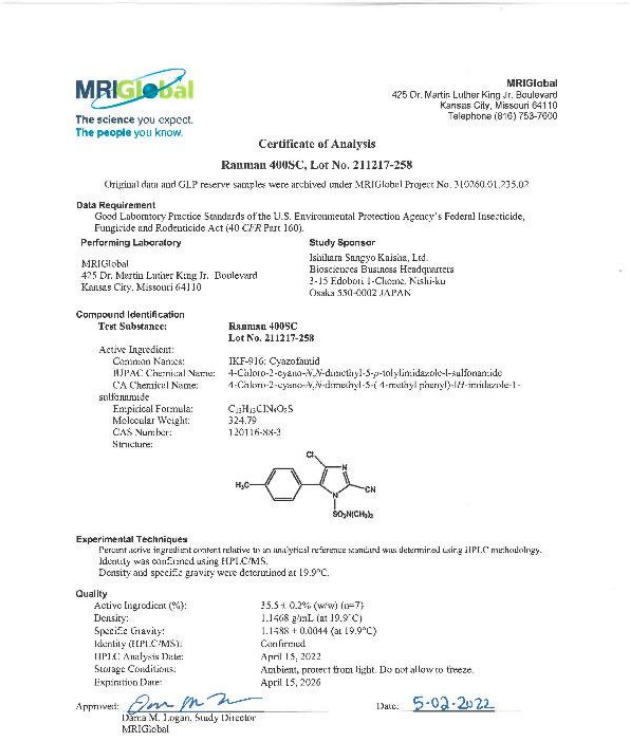
Test Substance Label

- Name
- Lot No.
- Expiration Date
- Storage



Certificate of Analysis

- Correct chemical
- GLP???
- Not expired



MRIGlobal
The science you expect.
The people you know.

MRIGlobal
425 Dr. Martin Luther King Jr. Boulevard
Kansas City, Missouri 64110
Telephone (816) 753-7600

Certificate of Analysis

Ranman 400SC, Lot No. 211217-258

Original data and GLP reserve samples were archived under MRIGlobal Project No. 310360.01.235.02

Data Requirement
Good Laboratory Practice Standards of the U.S. Environmental Protection Agency's Federal Insecticide, Fungicide and Rodenticide Act (40 *CFR* Part 160).

Performing Laboratory
MRIGlobal
425 Dr. Martin Luther King Jr. Boulevard
Kansas City, Missouri 64110

Study Sponsor
Ishihara Sangyo Kaisha, Ltd.
Biosciences Business Headquarters
2-15 Edobori 1-Chome, Nishi-ku
Osaka 550-0002 JAPAN

Compound Identification

Test Substance:	Ranman 400SC Lot No. 211217-258
Active Ingredient:	
Common Names:	IKF-916; Cyazofamid
IUPAC Chemical Name:	4-Chloro-2-cyano-*N*,*N*-dimethyl-5-*p*-tolylimidazole-1-sulfonamide
CA Chemical Name:	4-Chloro-2-cyano-*N*,*N*-dimethyl-5-(4-methylphenyl)-1*H*-imidazole-1-sulfonamide
Empirical Formula:	$C_{13}H_{13}ClN_4O_2S$
Molecular Weight:	324.79
CAS Number:	120116-88-3
Structure:	

Experimental Techniques
Percent active ingredient content relative to an analytical reference standard was determined using HPLC methodology.
Identity was confirmed using HPLC/MS.
Density and specific gravity were determined at 19.9°C.

Quality

Active Ingredient (%):	35.5 ± 0.2% (w/w) (n=7)
Density:	1.1468 g/mL (at 19.9°C)
Specific Gravity:	1.1488 ± 0.0044 (at 19.9°C)
Identity (HPLC/MS):	Confirmed
HPLC Analysis Date:	April 15, 2022
Storage Conditions:	Ambient, protect from light. Do not allow to freeze.
Expiration Date:	April 15, 2026

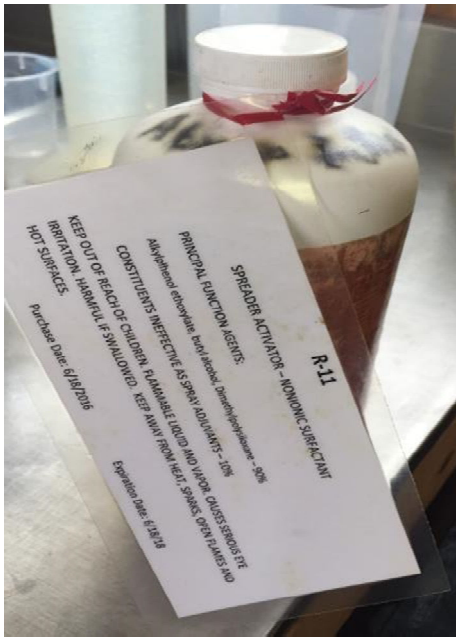
Approved: Date: 5-02-2022
Diana M. Logan, Study Director
MRIGlobal

SN

Adjuvant Container Label

- Name
- Concentration
- Storage
- Expiration date

Is it the correct kind of adjuvant?



Adjuvant Label

DIRECTIONS FOR USE

R-11® Spreader-Activator is specially formulated for increasing the efficacy of various agricultural chemicals. It is designed for use where quick wetting and uniform coverage of an agricultural chemical on a target surface is required. R-11 Spreader-Activator may also increase the absorption and translocation of systemic products. Rates of R-11 Spreader-Activator may vary with plant and environmental conditions at the time of application. Use the low rates of R-11 Spreader-Activator if a uniform film on the plant surface is desired. The high rates of R-11 Spreader-Activator will not result in excessive foaming and should be used in situations such as, but not limited to:

- Applications of systemic chemicals.
- Application rates as recommended on manufacturer's labels.
- Applications made under adverse conditions.

Generally, R-11 Spreader-Activator should be added as the last ingredient into the spray tank with the agitator running. However, some manufacturer's labels may recommend the addition of a nonionic surfactant, such as R-11 Spreader-Activator, into the spray tank earlier in the mixing sequence.

USE RATES

ACARICIDES, FUNGICIDES AND INSECTICIDES: Use 2-32 fl. oz. per 100 gallons of spray mixture. The higher rate should be as recommended on the pesticide manufacturer's label.

CITRUS: When ¼ inch or larger fruit are present, use 2 fl. oz. of R-11 per 100 gallons of spray mixture; otherwise, use 1/8-2 pints (2-32 fl. oz) of R-11 per 100 gals of spray mixture.

DEFOLIANTS, DESICCANTS AND HERBICIDES: Use 6-48 fl. oz. per 100 gallons of spray mixture for most applications. The application rates should be as recommended on the herbicide manufacturer's label.

PLANT GROWTH REGULATOR: When an EPA Registered Plant Growth Regulator recommends the use of a nonionic Surfactant, R-11 Spreader-Activator can be used at the rate suggested on the respective label. If there is no recommended rate for the nonionic surfactant on the Plant Growth Regulator label, then R-11 Spreader-Activator should be used at the general wetting rate of 16-32 fl. oz. per 100 gallons of spray mixture.

SOIL STERILANTS: Use R-11 Spreader-Activator at 1% of the total spray mixture.

Tank Mix Measuring

- Volumes or weights
- Technique
- Safety

Applications

- Equipment for the job
- Right crop stage
- Correct Interval
- Pass Times
- Proper PPE

Harvesting and Sampling

- Correct PHI and crop stage
- Sampling procedure
- Correct labeling
- Contamination prevention

SN

Documentation

- Reflects activities observed?
- Complete?
- Dated/initialed
- Proper corrections

Bicyclopyrone/Pineapple
ID No. 11997.21-HI156
Coughlin

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

G. APPLICATION INFORMATION FOR **APPLICATION NUMBER** 1 APPLICATION DATE 3/15/22

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 02	
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	NOA 449280 SL (200)	
BATCH/LOT NUMBER	1099852	
TIME MIXED/BY WHOM[1]	James Kam - 9:12 am	3/15/22 just prior to application.
TIME APPLIED/ BY WHOM[1]	Julie Coughlin - 9:20 am	
EQUIPMENT IDENTIFIER	PINE 21-01	
APPLICATION TYPE[2] *(e.g., foliar broadcast, soil directed)*	Banded to soil	
TANK MIX AMOUNTS		MEASURING EQUIPMENT with INCREMENTS*
CARRIER (starting volume of water)	319 mL Water	250 mL grad. cylinder / 2 mL incr. 50 mL grad. cylinder / 1 mL incr. 25 mL grad. cylinder / 1 mL incr.
VOLUME of WATER REMOVED from starting volume (if applicable)	0	
TEST SUBSTANCE (formulated product)	341 µl	A 100µl - 1000µl range automatic pipettor with 1 µl increments
ADJUVANT	798 µl	A 100µl - 1000µl range automatic pipettor with 1µl increments.
TOTAL VOLUME OF TANK MIX	320.139 mL	*e.g. 1000 mL grad. cylinder/10 mL incr.
NOZZLE DISTANCE from TARGET	21 inches from soil surface	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	22 PSI	
INCORPORATION - Methodology and/or Equipment - DEPTH - TIME	N/A - Not Incorporated	1-W, 2-TS, 3-W, 4-A, 5-W
CARRIER SOURCE/TYPE	County Water - Potable	
CARRIER pH/TEMPERATURE	7.0 / 75.3 °F	
EQUIPMENT used to MEASURE pH	Paper Strips	

[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: Julie Coughlin *DATE:* 3/15/22

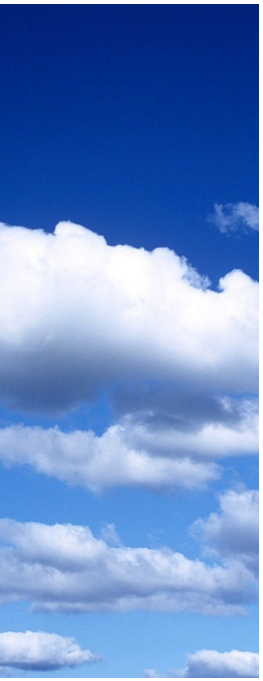
PART 6 PAGE 10 Trial Year 2021

Sometimes you get to come home with a new family member!

Did the activities observed follow the GLPs, protocol and SOPs?

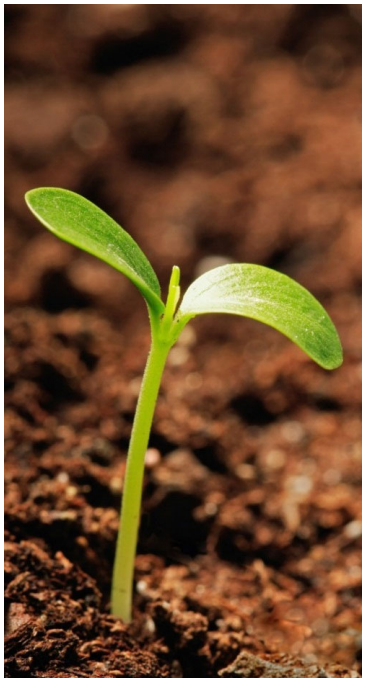
Questions??

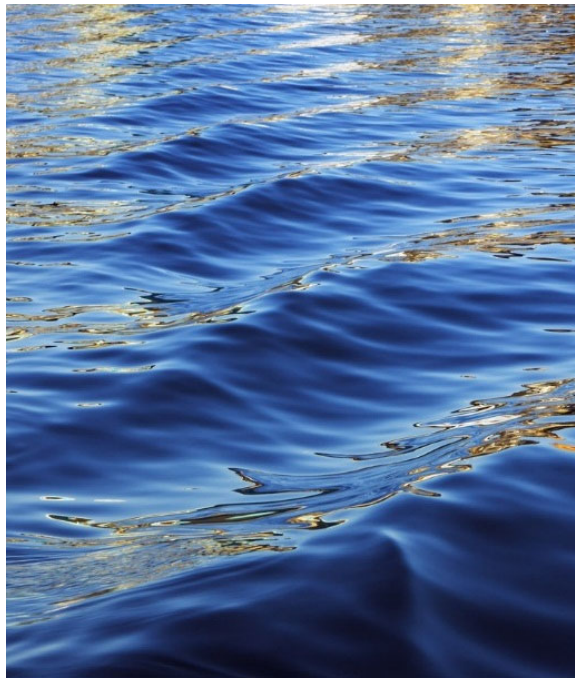
Thank you!



Travel Safety

Martin Beran, Western Region QA



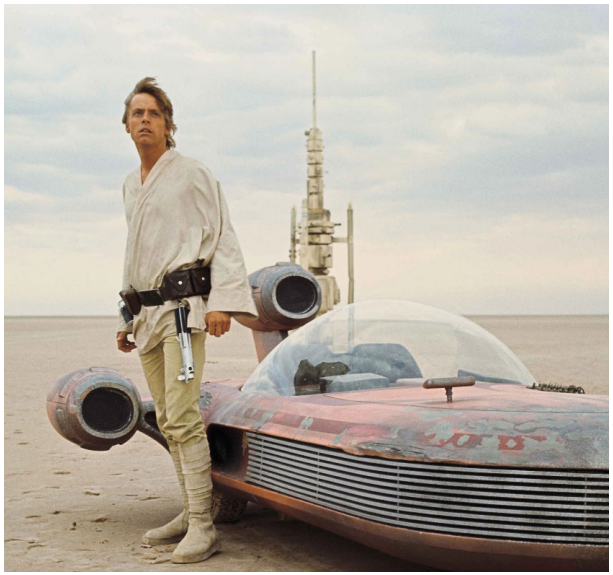


At the Airport

- Put your phone, watch, and wallet back into your bag at the security check.
- Bring an empty water bottle to fill up after security.
- Travel light, additional carry-ons might be charged.
- Bring snacks, delays are becoming more frequent.
- Confirm whether masks are still required to be worn on the plane.
- Have the airline customer service number saved in case of delays.

Renting a Car

- Give the rental company your flight arrival information to ensure your car is ready.
- Wipe down controls with sanitizer wipes.
- Synch up your phone before you start the drive.
- Make sure any University discounts are applied to your rental agreement.
- Pull into a crowded area to take a quick nap.
- Gas up the car yourself, to avoid hidden fees.

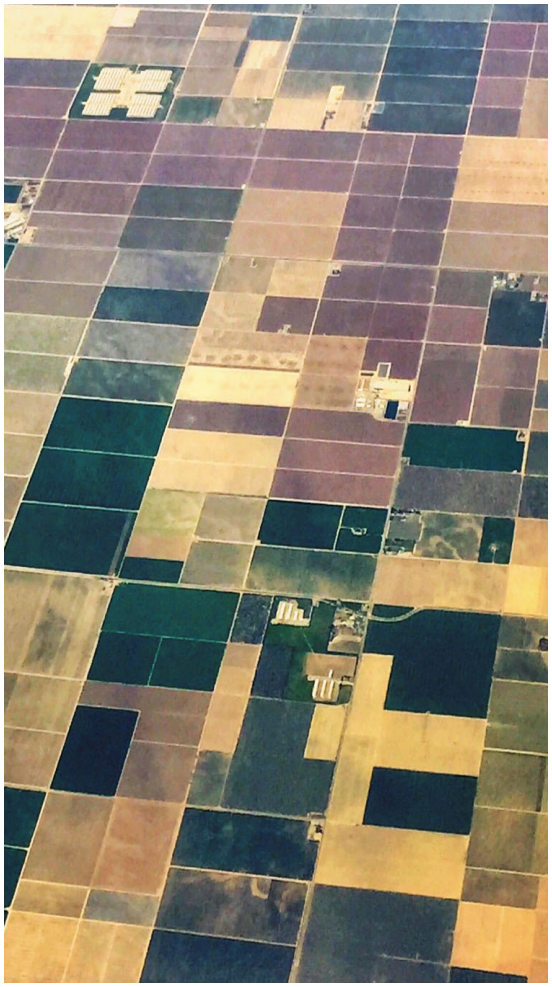


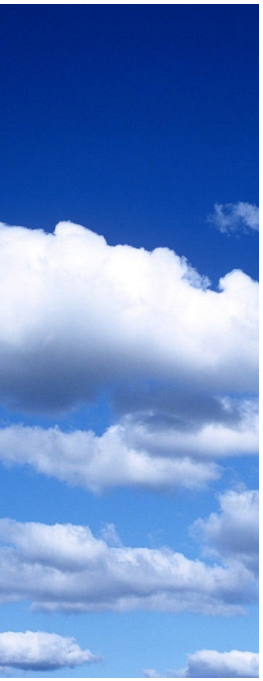
Staying at Hotels

- Know what the hotel cancellation policy is.
- Wipe down light switches and handles.
- Don't leave valuables in your car overnight.
- Use your phone as a wake up alarm.
- Use the stairs rather than the elevator.
- Bring some snacks in case the breakfast isn't available.

Helpful Hints

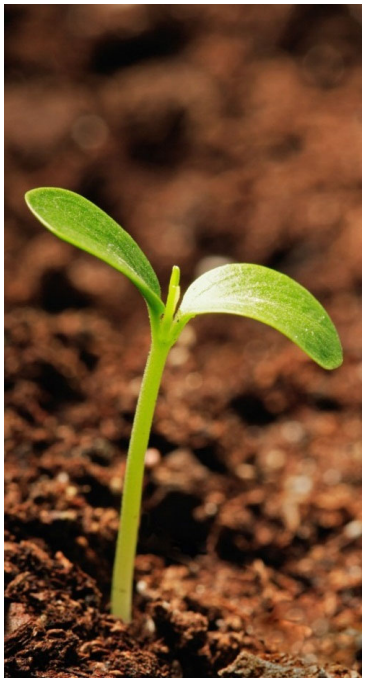
- Don't carry around a lot of cash.
- Have all your receipts emailed to you.
- Join loyalty clubs for airlines, car rentals, and hotels.
- Bring hand sanitizer, TSA lets you bring up to 12 oz.
- Reserve as early as possible, cancelling is easy.
- Give a loved one your flight information.
- Check for traffic issues and road closures.

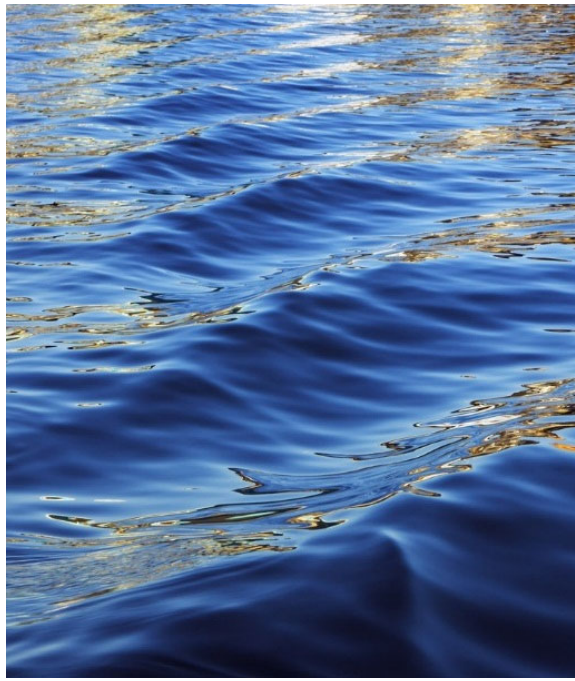




Spray Advisory

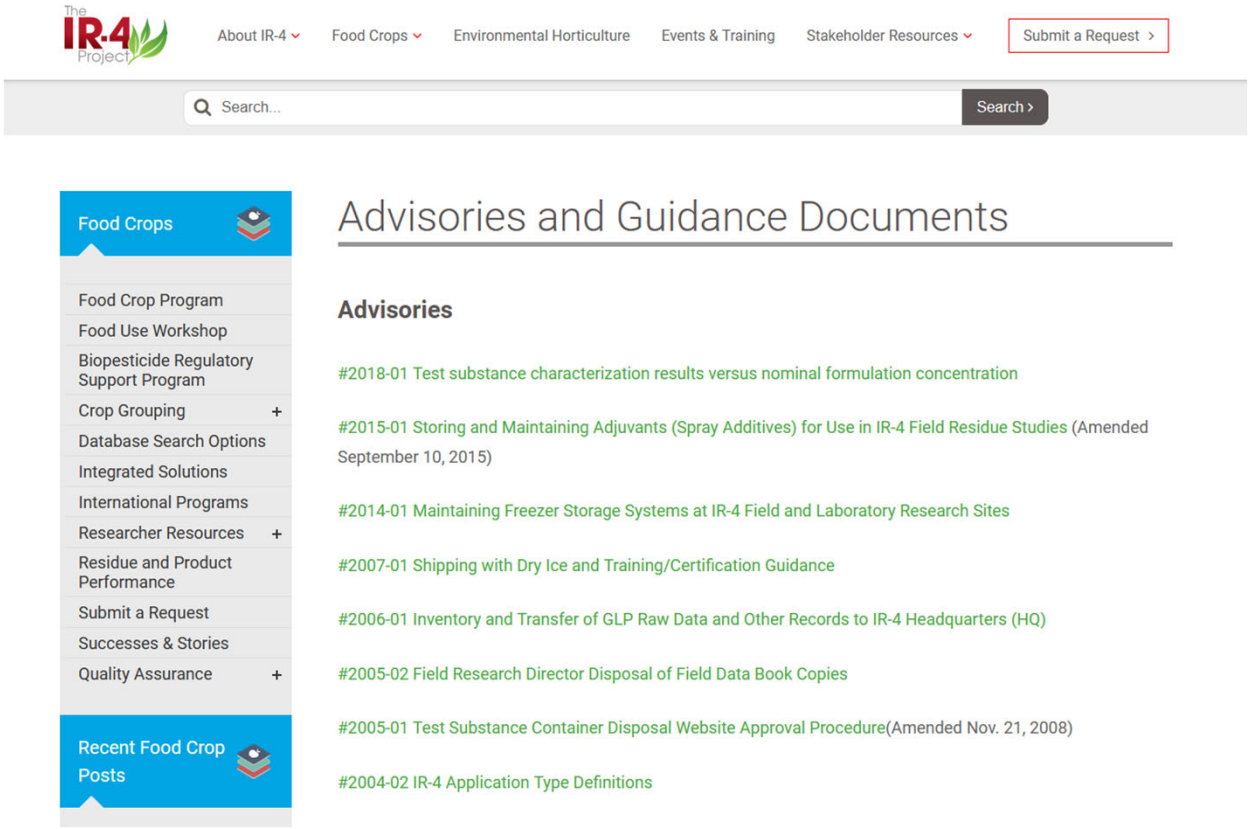
Mika Tolson

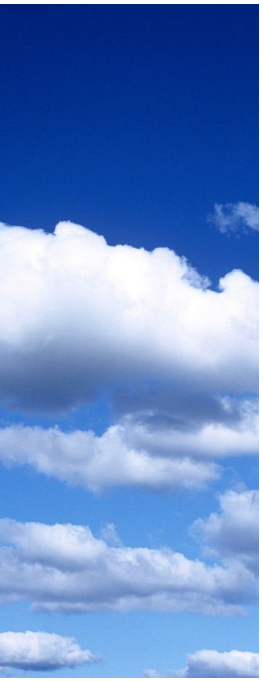




Application Types: IR-4 Advisory #2004-02

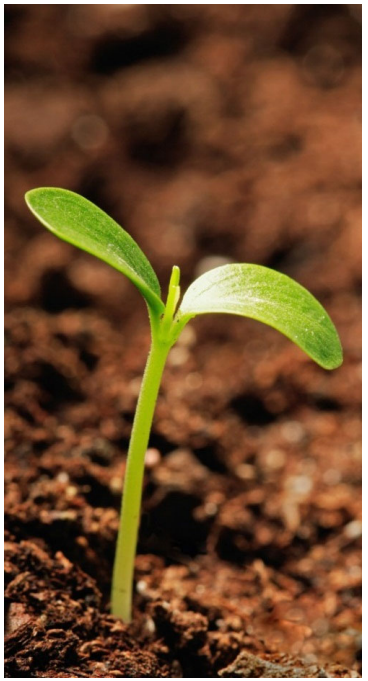
- IR-4 Website
- Under Food Crops ->Researcher Resources ->Advisories

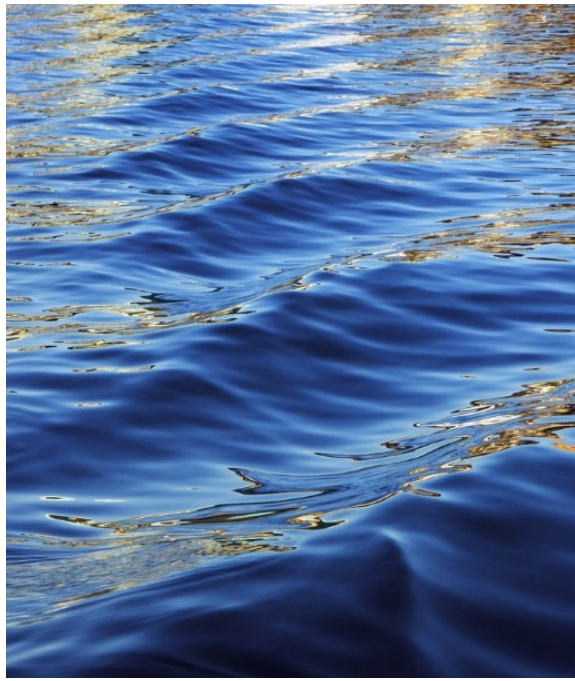




When Dirty Samples Arrive at the Lab…

Bronson Hung, Western Region Lab Analyst



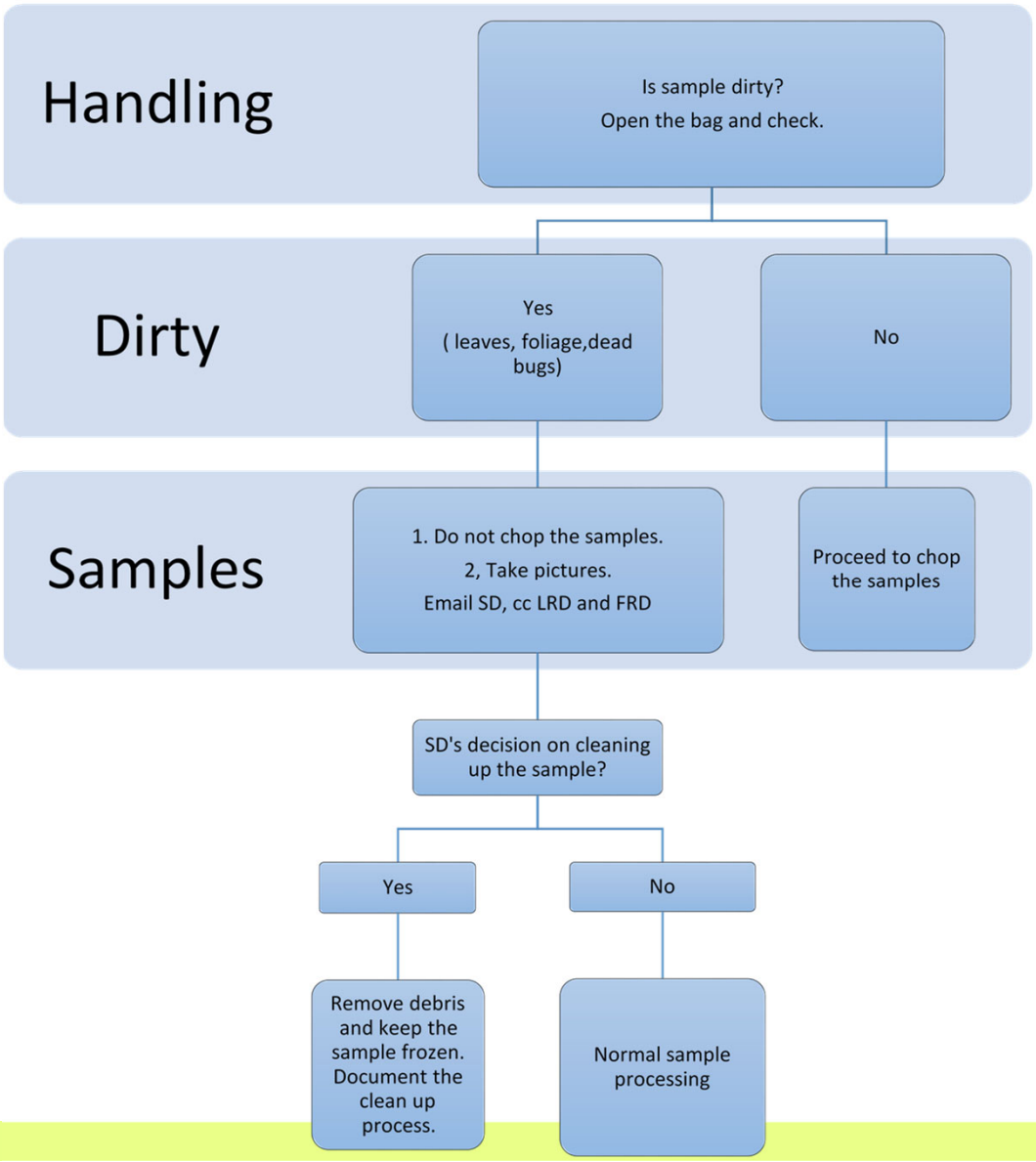


Dirty Samples

More Dirty Samples

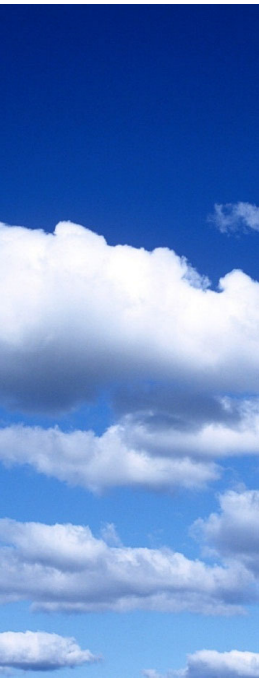
Lightly rinse the roots with clean water (do not scrub), simulating commercial practices, or dip the root briefly in a bucket of water. DO NOT SCRUB OR RUB WHILE RINSING AND DRYING THE ROOTS.

The bean samples should be free of any foliage or pod fragments. Each sample should weigh a minimum of 2 lb (but preferably not more than 3 lb).


Handling
Is sample dirty?
Open the bag and check.
Dirty
Yes
(leaves, foliage,dead bugs)
No
Samples
1. Do not chop the samples.
2, Take pictures.
Email SD, cc LRD and FRD
Proceed to chop the samples
SD's decision on cleaning up the sample?
Yes
No
Remove debris and keep the sample frozen. Document the clean up process.
Normal sample processing

Recommendations

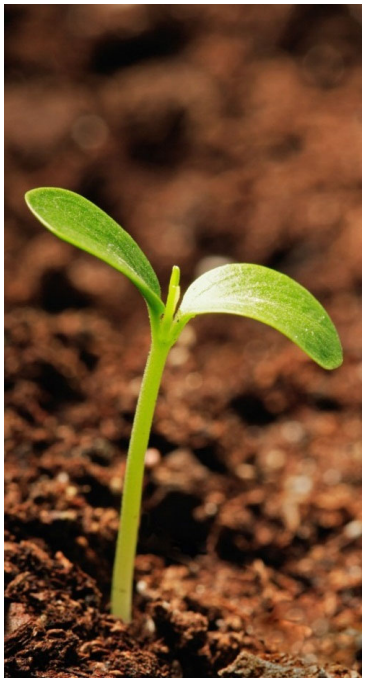
- Read the sampling section of the protocol carefully
- If you cannot follow the requirements
  - Contact the study director for guidance
  - Don’t forget to submit deviation
- Please consider the lab
  - We have to grind up everything in the sample bag

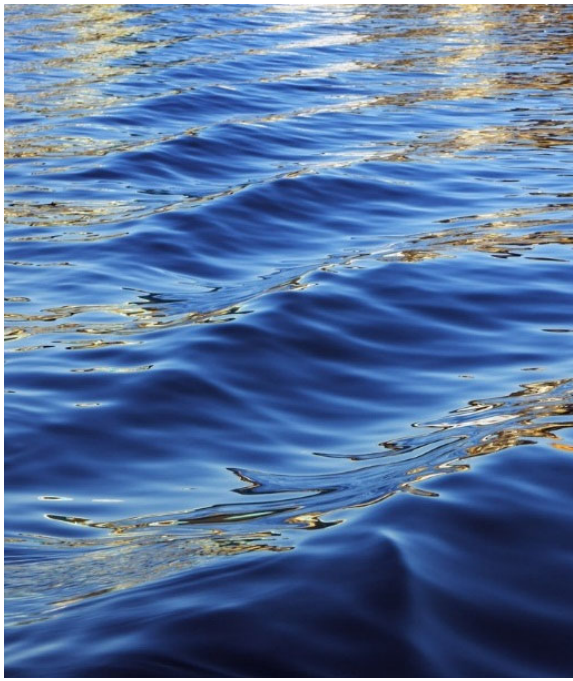


CDN Study Director US Trials Instructions:

GLP Acceptance Form
RDFN (Field Data Book)
Field Trial Tracking
RDFN routing & QA

Sheryl Lonsbary, Pest Management Centre
Agriculture & Agri-Food Canada





Topics Covered

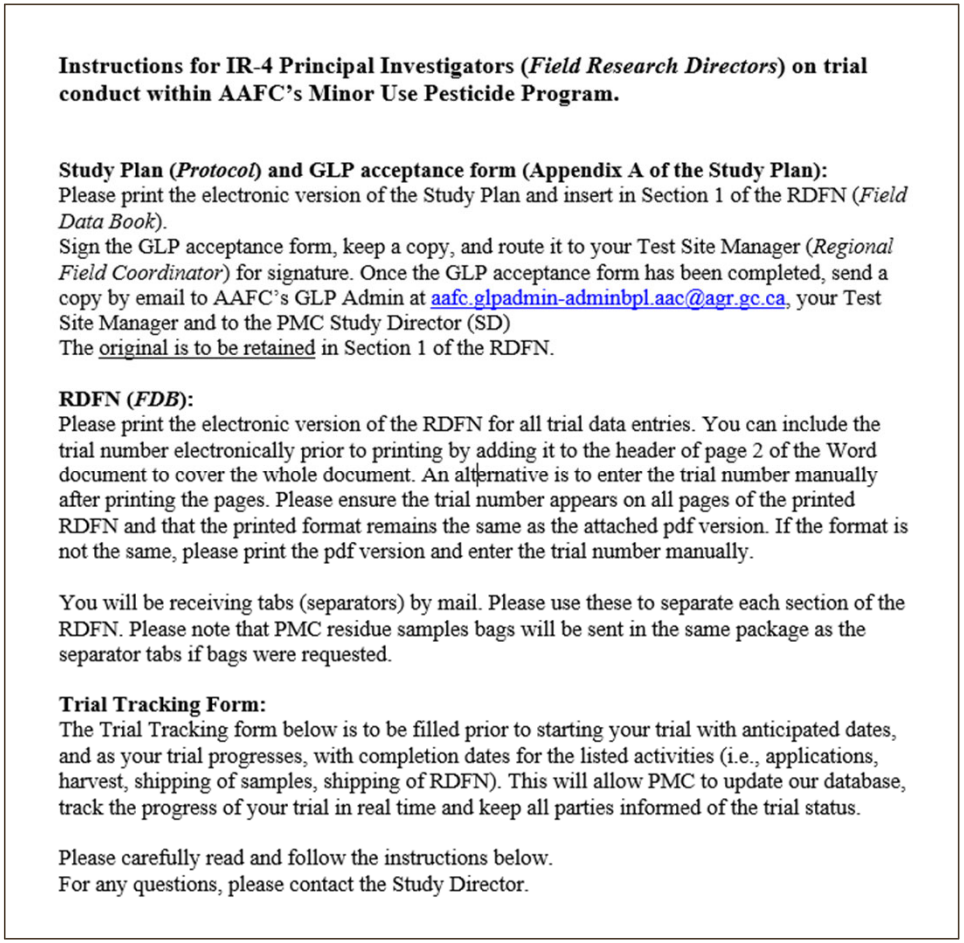
- Instructions
  GLP acceptance form, RDFN, Trial Tracking form

- Trial Tracking Form Activities/Routing
  purpose, entries, and handling

- Field Data Book (RDFN) Activities/Routing
  QC & QA process (hardcopy/scanned copy management)

Instructions

- GLP acceptance form (last page of study plan)
  - Complete as per form instructions:
    Send scan to GLP Admin & SD, retain original in RDFN
- RDFN
  - Print, adding Trial ID to RDFN word file pages
  - RDFN section separator tabs and GLP sample bags will be sent by PMC to PI (FRD)
- Trial Tracking Form
  - Enter anticipated dates for trial activities
  - Enter actual dates as trial work proceeds and send scan periodically to SD via email



Instructions for IR-4 Principal Investigators (*Field Research Directors*) on trial conduct within AAFC's Minor Use Pesticide Program.

Study Plan (*Protocol*) and GLP acceptance form (Appendix A of the Study Plan):
Please print the electronic version of the Study Plan and insert in Section 1 of the RDFN (*Field Data Book*).
Sign the GLP acceptance form, keep a copy, and route it to your Test Site Manager (*Regional Field Coordinator*) for signature. Once the GLP acceptance form has been completed, send a copy by email to AAFC's GLP Admin at aafc.glpadmin-adminbpl.aac@agr.gc.ca, your Test Site Manager and to the PMC Study Director (SD)
The original is to be retained in Section 1 of the RDFN.

RDFN (*FDB*):
Please print the electronic version of the RDFN for all trial data entries. You can include the trial number electronically prior to printing by adding it to the header of page 2 of the Word document to cover the whole document. An alternative is to enter the trial number manually after printing the pages. Please ensure the trial number appears on all pages of the printed RDFN and that the printed format remains the same as the attached pdf version. If the format is not the same, please print the pdf version and enter the trial number manually.

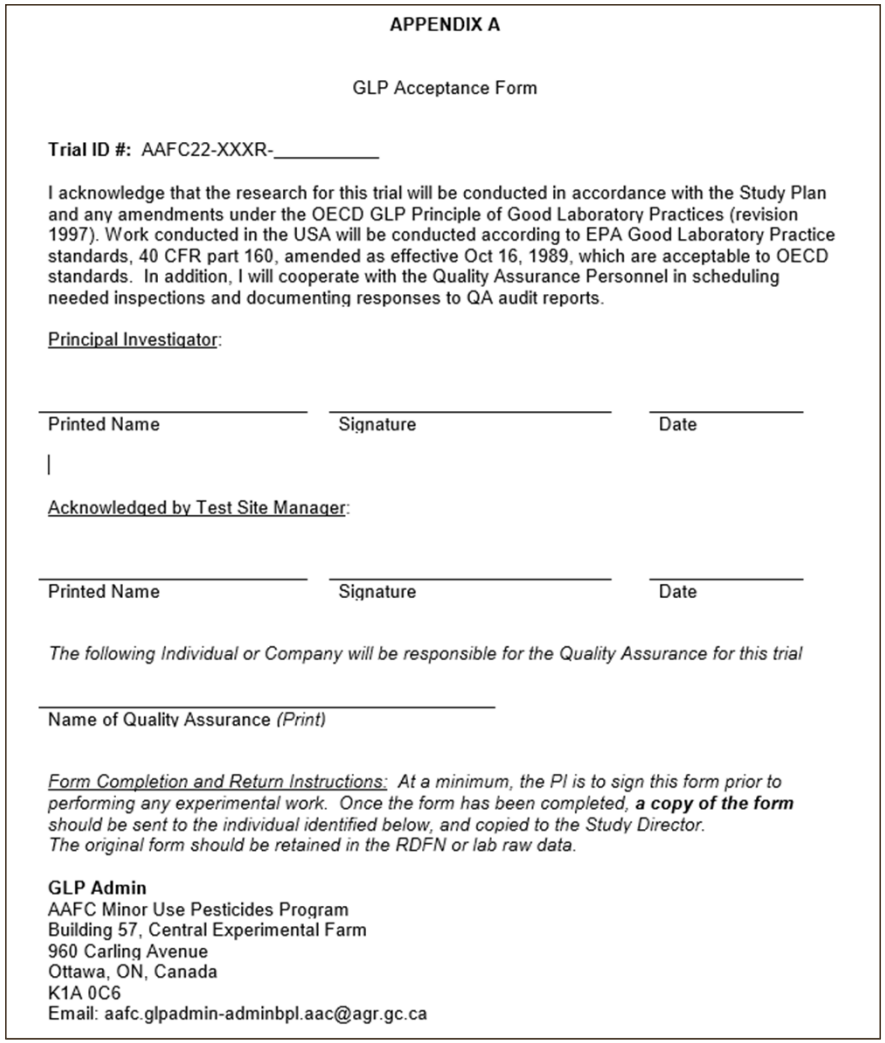
You will be receiving tabs (separators) by mail. Please use these to separate each section of the RDFN. Please note that PMC residue samples bags will be sent in the same package as the separator tabs if bags were requested.

Trial Tracking Form:
The Trial Tracking form below is to be filled prior to starting your trial with anticipated dates, and as your trial progresses, with completion dates for the listed activities (i.e., applications, harvest, shipping of samples, shipping of RDFN). This will allow PMC to update our database, track the progress of your trial in real time and keep all parties informed of the trial status.

Please carefully read and follow the instructions below.
For any questions, please contact the Study Director.

GLP Acceptance Form

- Located as Appendix A of Study Plan
- Prior to initiation of any trial specific work
  - FRD prints name, signs and dates
  - Test Site Manager (Regional Field Coordinator) prints name, signs and dates
  - Write "IR-4 Quality Assurance" for the Name of the Quality Assurance field
- Handling
  - Send scan to GLP Admin & SD
  - Retain original in RDFN



APPENDIX A

GLP Acceptance Form

Trial ID #: AAFC22-XXXR-_____

I acknowledge that the research for this trial will be conducted in accordance with the Study Plan and any amendments under the OECD GLP Principle of Good Laboratory Practices (revision 1997). Work conducted in the USA will be conducted according to EPA Good Laboratory Practice standards, 40 CFR part 160, amended as effective Oct 16, 1989, which are acceptable to OECD standards. In addition, I will cooperate with the Quality Assurance Personnel in scheduling needed inspections and documenting responses to QA audit reports.

Principal Investigator:

Printed Name | Signature | Date

Acknowledged by Test Site Manager:

Printed Name | Signature | Date

The following Individual or Company will be responsible for the Quality Assurance for this trial

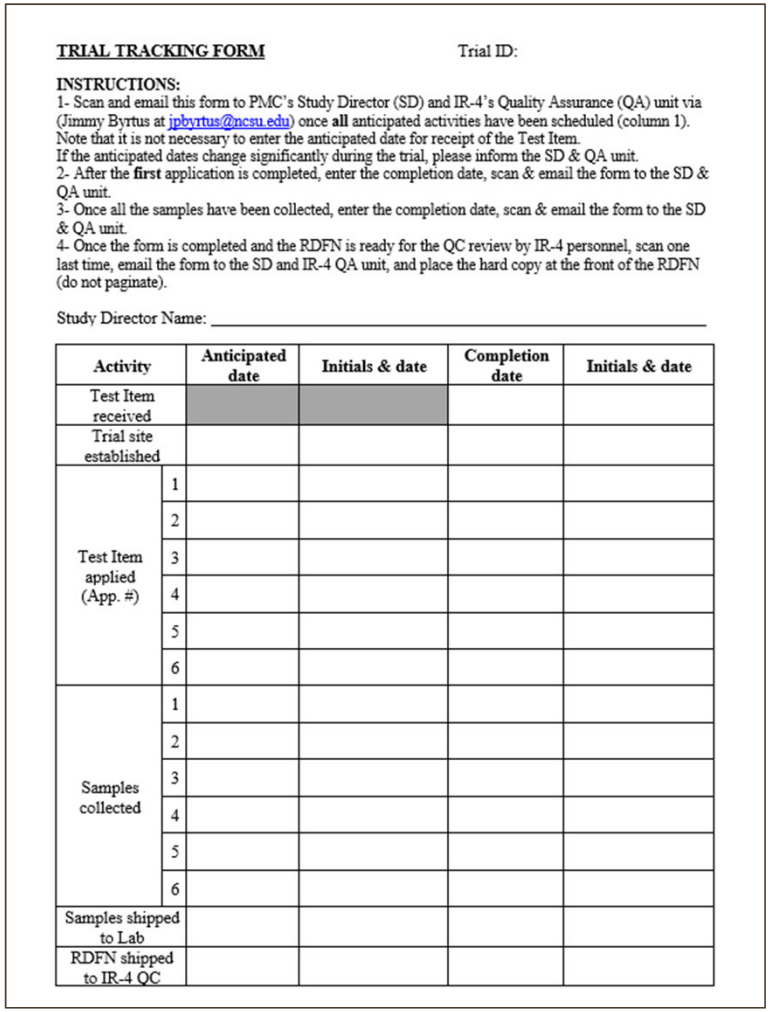
Name of Quality Assurance *(Print)*

Form Completion and Return Instructions: At a minimum, the PI is to sign this form prior to performing any experimental work. Once the form has been completed, ***a copy of the form*** *should be sent to the individual identified below, and copied to the Study Director. The original form should be retained in the RDFN or lab raw data.*

GLP Admin
AAFC Minor Use Pesticides Program
Building 57, Central Experimental Farm
960 Carling Avenue
Ottawa, ON, Canada
K1A 0C6
Email: aafc.glpadmin-adminbpl.aac@agr.gc.ca

Trial Tracking Form

- Considered a GLP document, but is not audited
- Allows PMC to update its database and track trial progress
- Instructions:
  - Enter anticipated dates for trial site establishment, applications, sample collection/shipment, RDFN for audit
  - If anticipated dates change significantly, updates should be made and SD informed
  - Send scan to SD and IR-4 QA:
    - after anticipated dates have been entered,
    - after first application is made,
    - after all sample collections have been made,
    - when RDFN is ready for QC and form has been completed
  - Place hard copy of form at front of RDFN (do not paginate)



TRIAL TRACKING FORM Trial ID:

INSTRUCTIONS:
1- Scan and email this form to PMC's Study Director (SD) and IR-4's Quality Assurance (QA) unit via (Jimmy Byrtus at jpbyrtus@ncsu.edu) once **all** anticipated activities have been scheduled (column 1). Note that it is not necessary to enter the anticipated date for receipt of the Test Item.
If the anticipated dates change significantly during the trial, please inform the SD & QA unit.
2- After the **first** application is completed, enter the completion date, scan & email the form to the SD & QA unit.
3- Once all the samples have been collected, enter the completion date, scan & email the form to the SD & QA unit.
4- Once the form is completed and the RDFN is ready for the QC review by IR-4 personnel, scan one last time, email the form to the SD and IR-4 QA unit, and place the hard copy at the front of the RDFN (do not paginate).

Study Director Name: _____

Activity		Anticipated date	Initials & date	Completion date	Initials & date
Test Item received					
Trial site established					
Test Item applied (App. #)	1				
	2				
	3				
	4				
	5				
	6				
Samples collected	1				
	2				
	3				
	4				
	5				
	6				
Samples shipped to Lab					
RDFN shipped to IR-4 QC					

Trial Tracking Form Activities/Routing

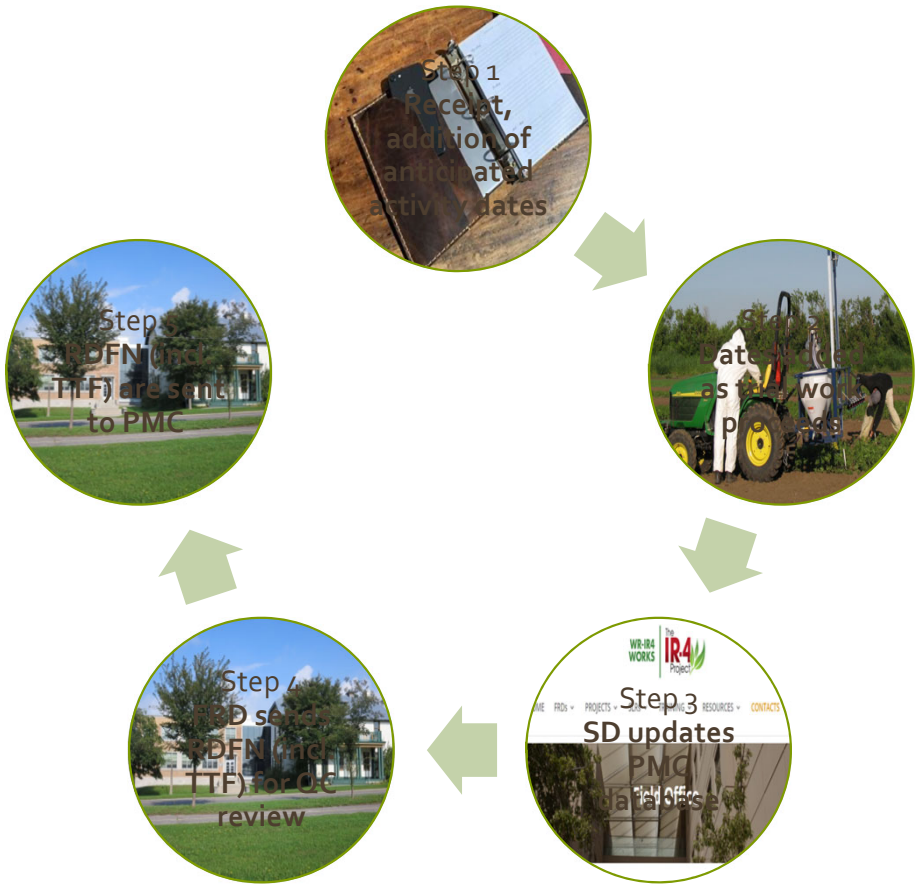
1) Trial Tracking Form (TTF) Receipt
   - Arrives as word document attached to email
     - Enter anticipated activity dates
     - Email scan to SD & IR-4 QA unit

2) TTF is updated as trial work proceeds:
   - Enter dates for trial site establishment, applications, sample collection/shipment, RDFN for audit
   - Periodic scans are emailed to SD & IR-4 QA unit

3) SD updates PMC database
   - allows tracking of trial progress

4) FRD sends RDFN (incl. TTF) for QC review

5) RDFN (incl. TTF) are sent to PMC
   - QA audit of RDFN to be initiated



Overview of RDFN Activities/Routing

1) RDFN and Study Plan Receipt
   - Arrives as word and/or pdf document attached to email
   - Instructions and Trial Tracking form also provided

2) Trial conduct
   - Make RDFN entries following EPA GLP requirements

3) Submit RDFN to Regional Field Coordinator for QC review
   - FRD works with reviewer to address QC findings

4) RDFN is sent to Pest Management Centre (PMC) for QA
   - RFC office emails SD to determine shipment address for the RDFN
     - Options:
       - Send to the SD (address may vary from HQ) **OR**
       - Send to GLP Admin (located at HQ in Ottawa)
   - RDFN (incl. QC report) is shipped to indicated address
   - SD and GLP Admin are notified by email when RDFN is shipped
     (email should include a scan of the completed QC Report)
   - RDFN scanned by PMC to create an electronic copy
   - PMC QA conducts RDFN audit using electronic scan
   - PMC QA emails the RDFN QA audit to FRD, RFC and SD

5) FRD and SD collaborate to address QA audit RDFN findings
   - see next slide

Overview of QA activities/process

5) FRD and SD collaborate to address QA audit RDFN findings

Edits to and completion of the RDFN

Option 1:

- SD sends RDFN page scans via email that need updating
- FRD prints and updates the pages
- FRD emails SD a scan of the completed audit (see below) and approves SD to make changes to the RDFN
- FRD mails updated RDFN pages and the completed audit to GLP Admin

Option 2:

- FRD reviews the findings, provides an email outlining the changes to be made to the RDFN and approves the SD to make the changes to the RDFN

Completion of the QA Audit

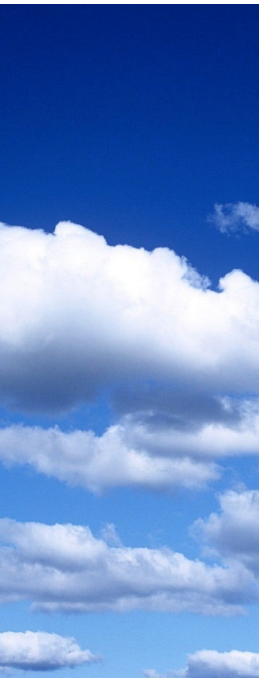
- FRD
  - Responds to the audit and signs it
  - Scans the completed QA audit along with updated RDFN pages (Option 1 above)
  - Emails scans to SD and GLP Admin
  - Mails all hard copy/inked RDFN pages and QA audit to GLP admin

- SD will finalize the corrections to the RDFN and route the QA audit for final signature

For any questions
please contact the SD !

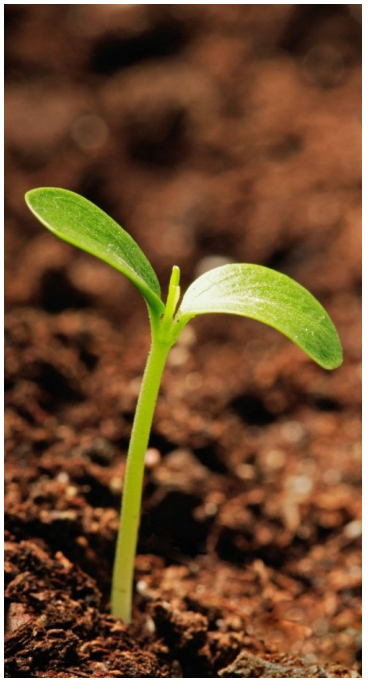
Thank you for your attention

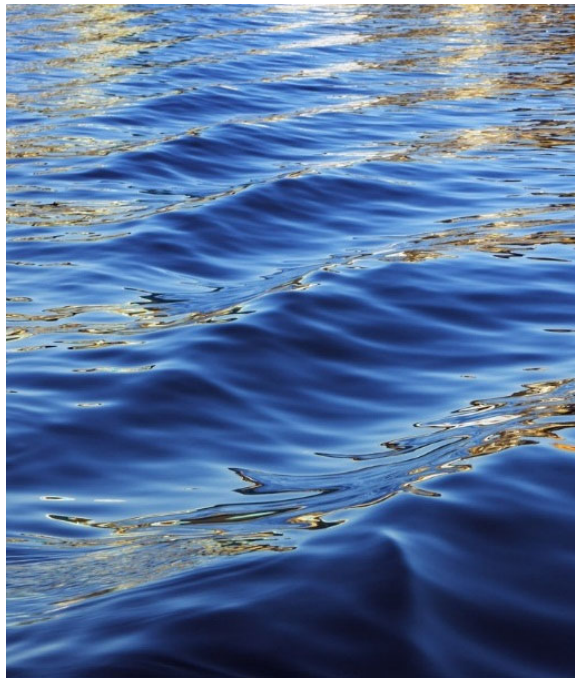
- Questions?



QC Reviewer Wishlist: Parts 1-4

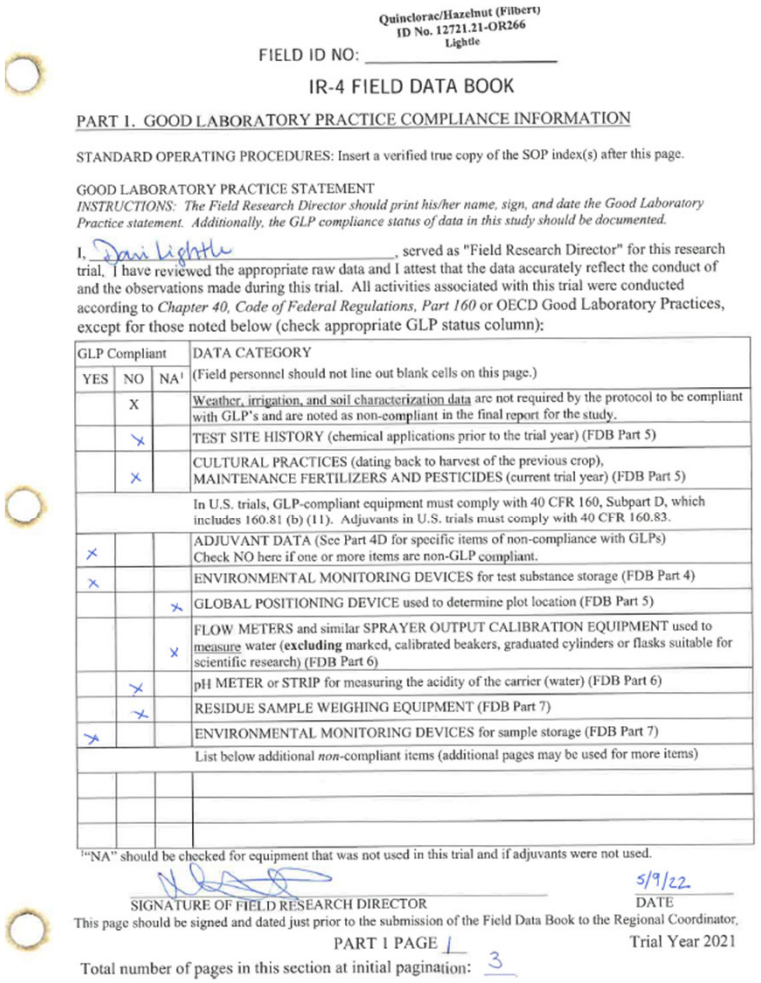
Mika representing all of IR-4's quality control reviewers





Part 1: GLP Compliance

- SOPs included should cover the entire trial period
  - Test substance receipt to sample shipping
- Wait to sign the GLP compliance page until just before shipping notebook to the Regional Field Coordinator



Quinclorac/Hazelnut (Filbert)
ID No. 12721.21-OR266
Lightle

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 1. GOOD LABORATORY PRACTICE COMPLIANCE INFORMATION

STANDARD OPERATING PROCEDURES: Insert a verified true copy of the SOP index(s) after this page.

GOOD LABORATORY PRACTICE STATEMENT
INSTRUCTIONS: The Field Research Director should print his/her name, sign, and date the Good Laboratory Practice statement. Additionally, the GLP compliance status of data in this study should be documented.

I, Dani Lightle, served as "Field Research Director" for this research trial. I have reviewed the appropriate raw data and I attest that the data accurately reflect the conduct of and the observations made during this trial. All activities associated with this trial were conducted according to *Chapter 40, Code of Federal Regulations, Part 160* or OECD Good Laboratory Practices, except for those noted below (check appropriate GLP status column):

GLP Compliant			DATA CATEGORY
YES	NO	NA[1]	(Field personnel should not line out blank cells on this page.)
	X		Weather, irrigation, and soil characterization data are not required by the protocol to be compliant with GLP's and are noted as non-compliant in the final report for the study.
	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 Part 5)
			In U.S. trials, GLP-compliant equipment must comply with 40 CFR 160, Subpart D, which includes 160.81 (b) (11). Adjuvants in U.S. trials must comply with 40 CFR 160.83.
X			ADJUVANT DATA (See Part 4D for specific items of non-compliance with GLPs) Check NO here if one or more items are non-GLP compliant.
X			ENVIRONMENTAL MONITORING DEVICES for test substance storage (FDB Part 4)
		X	GLOBAL POSITIONING DEVICE used to determine plot location (FDB Part 5)
		X	FLOW METERS and similar SPRAYER OUTPUT CALIBRATION EQUIPMENT used to measure water (**excluding** marked, calibrated beakers, graduated cylinders or flasks suitable for scientific research) (FDB Part 6)
	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)

"NA" should be checked for equipment that was not used in this trial and if adjuvants were not used.

SIGNATURE OF FIELD RESEARCH DIRECTOR — DATE: 5/9/22

This page should be signed and dated just prior to the submission of the Field Data Book to the Regional Coordinator.

PART 1 PAGE 1 — Trial Year 2021

Total number of pages in this section at initial pagination: 3

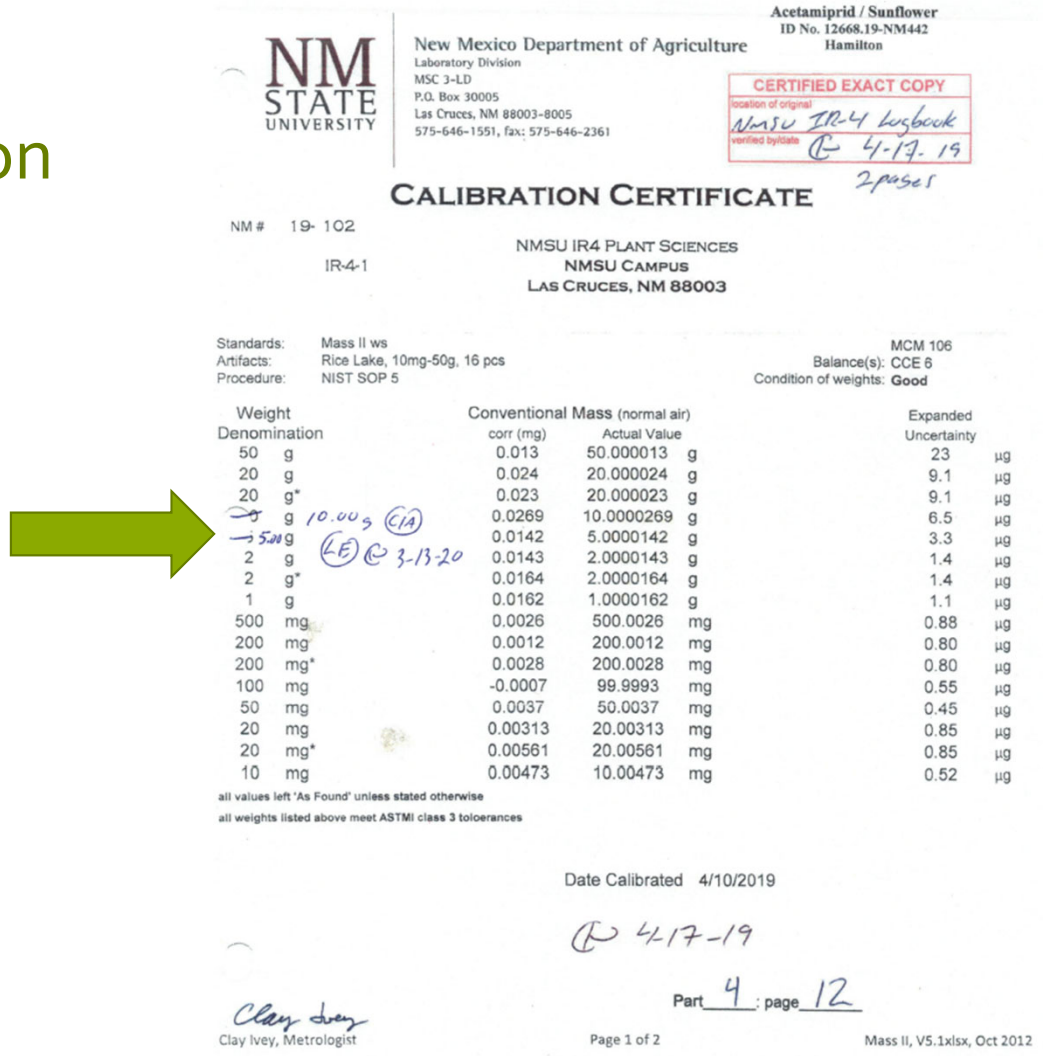
Part 2: Personnel

- Include an updated CV and recent GLP training for all personnel listed

"At some point we'll have to focus on training, rather than just batting at the cursor."

Part 3: Communication

- GLP requires all data to be "readable".
- If a hole punch obscures data, hand write it in



Acetamiprid / Sunflower
ID No. 12668.19-NM442
Hamilton

NM STATE UNIVERSITY

New Mexico Department of Agriculture
Laboratory Division
MSC 3-LD
P.O. Box 30005
Las Cruces, NM 88003-8005
575-646-1551, fax: 575-646-2361

CERTIFIED EXACT COPY
location of original: NMSU IR-4 Logbook
verified by/date: 4-17-19
2 pages

CALIBRATION CERTIFICATE

NM # 19-102
IR-4-1

NMSU IR4 PLANT SCIENCES
NMSU CAMPUS
LAS CRUCES, NM 88003

Standards: Mass II ws
Artifacts: Rice Lake, 10mg-50g, 16 pcs
Procedure: NIST SOP 5

MCM 106
Balance(s): CCE 6
Condition of weights: Good

Weight Denomination		Conventional Mass (normal air) corr (mg)	Actual Value		Expanded Uncertainty	
50	g	0.013	50.000013	g	23	µg
20	g	0.024	20.000024	g	9.1	µg
20	g*	0.023	20.000023	g	9.1	µg
~~5~~	g 10.00g (CIA)	0.0269	10.0000269	g	6.5	µg
→5.00	g (LE) 3-13-20	0.0142	5.0000142	g	3.3	µg
2	g	0.0143	2.0000143	g	1.4	µg
2	g*	0.0164	2.0000164	g	1.4	µg
1	g	0.0162	1.0000162	g	1.1	µg
500	mg	0.0026	500.0026	mg	0.88	µg
200	mg	0.0012	200.0012	mg	0.80	µg
200	mg*	0.0028	200.0028	mg	0.80	µg
100	mg	-0.0007	99.9993	mg	0.55	µg
50	mg	0.0037	50.0037	mg	0.45	µg
20	mg	0.00313	20.00313	mg	0.85	µg
20	mg*	0.00561	20.00561	mg	0.85	µg
10	mg	0.00473	10.00473	mg	0.52	µg

all values left 'As Found' unless stated otherwise
all weights listed above meet ASTMI class 3 tolerances

Date Calibrated 4/10/2019

4-17-19

Part 4 : page 12

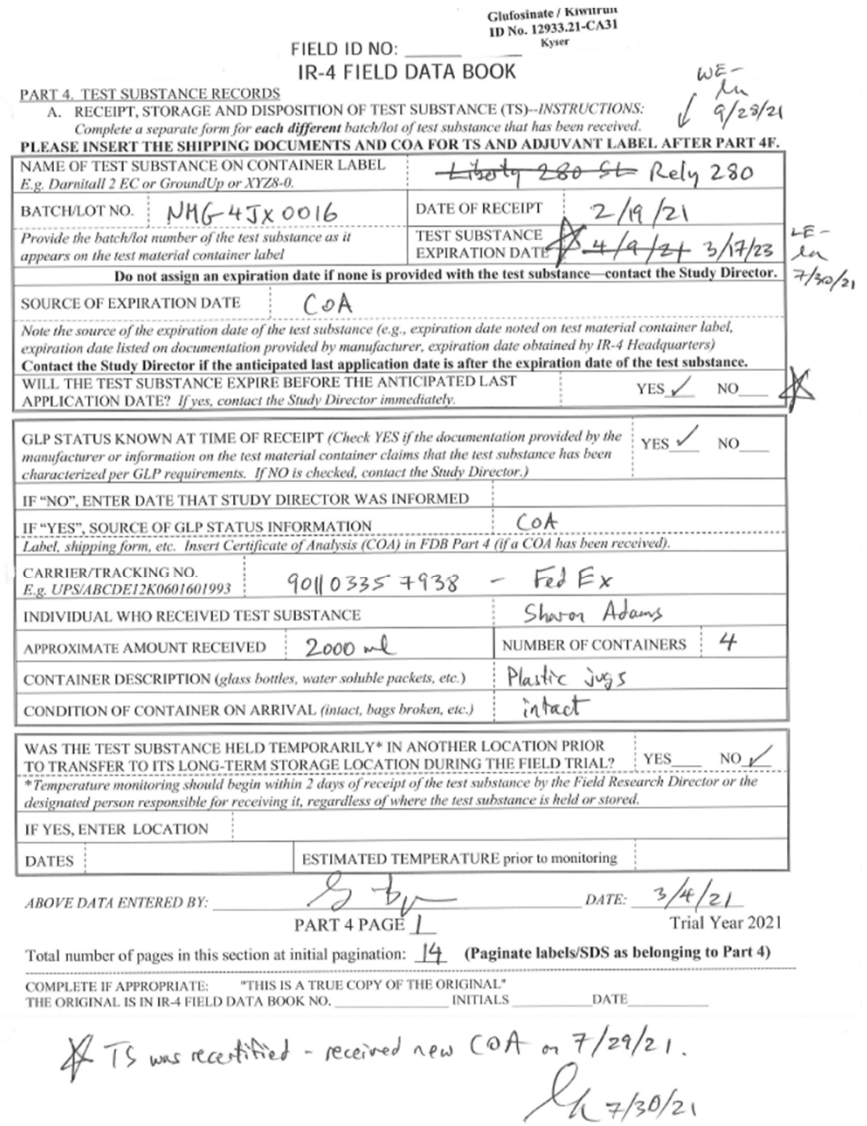
Clay Ivey
Clay Ivey, Metrologist

Page 1 of 2

Mass II, V5.1xlsx, Oct 2012

Part 4: Test Substance

- New CoA provided by registrant with new test substance expiration date?
- Update the exp date on Part 4A as well



Glufosinate / Kiwitrun
ID No. 12933.21-CA31
Kyser

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 4. TEST SUBSTANCE RECORDS

A. RECEIPT, STORAGE AND DISPOSITION OF TEST SUBSTANCE (TS)--*INSTRUCTIONS:*
Complete a separate form for ***each different*** *batch/lot of test substance that has been received.*

WE- lm 9/23/21

PLEASE INSERT THE SHIPPING DOCUMENTS AND COA FOR TS AND ADJUVANT LABEL AFTER PART 4F.

NAME OF TEST SUBSTANCE ON CONTAINER LABEL *E.g. Darnitall 2 EC or GroundUp or XYZ8-0.*	~~Liberty 280 SL~~ Rely 280
BATCH/LOT NO. NMG4JX0016	DATE OF RECEIPT 2/19/21
Provide the batch/lot number of the test substance as it appears on the test material container label	TEST SUBSTANCE EXPIRATION DATE ~~4/9/24~~ 3/17/23

Do not assign an expiration date if none is provided with the test substance—contact the Study Director.

LE- lm 7/30/21

SOURCE OF EXPIRATION DATE	CoA

Note the source of the expiration date of the test substance (e.g., expiration date noted on test material container label, expiration date listed on documentation provided by manufacturer, expiration date obtained by IR-4 Headquarters)
Contact the Study Director if the anticipated last application date is after the expiration date of the test substance.

WILL THE TEST SUBSTANCE EXPIRE BEFORE THE ANTICIPATED LAST APPLICATION DATE? *If yes, contact the Study Director immediately.*	YES ✓ NO ___

GLP STATUS KNOWN AT TIME OF RECEIPT *(Check YES if the documentation provided by the manufacturer or information on the test material container claims that the test substance has been characterized per GLP requirements. If NO is checked, contact the Study Director.)*	YES ✓ NO ___
IF "NO", ENTER DATE THAT STUDY DIRECTOR WAS INFORMED	
IF "YES", SOURCE OF GLP STATUS INFORMATION *Label, shipping form, etc. Insert Certificate of Analysis (COA) in FDB Part 4 (if a COA has been received).*	COA
CARRIER/TRACKING NO. *E.g. UPS/ABCDE12K0601601993*	9011 0335 7938 - Fed Ex
INDIVIDUAL WHO RECEIVED TEST SUBSTANCE	Sharon Adams
APPROXIMATE AMOUNT RECEIVED 2000 ml	NUMBER OF CONTAINERS 4
CONTAINER DESCRIPTION *(glass bottles, water soluble packets, etc.)*	Plastic jugs
CONDITION OF CONTAINER ON ARRIVAL *(intact, bags broken, etc.)*	intact

WAS THE TEST SUBSTANCE HELD TEMPORARILY* IN ANOTHER LOCATION PRIOR TO TRANSFER TO ITS LONG-TERM STORAGE LOCATION DURING THE FIELD TRIAL?	YES ___ NO ✓

**Temperature monitoring should begin within 2 days of receipt of the test substance by the Field Research Director or the designated person responsible for receiving it, regardless of where the test substance is held or stored.*

IF YES, ENTER LOCATION			
DATES		ESTIMATED TEMPERATURE prior to monitoring	

ABOVE DATA ENTERED BY: _____ *DATE:* 3/4/21

PART 4 PAGE 1 Trial Year 2021

Total number of pages in this section at initial pagination: 14 **(Paginate labels/SDS as belonging to Part 4)**

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

* TS was recertified - received new COA on 7/29/21.
7/30/21

Thank You for Attending!

- Please send ideas for future training or questions to mptolson@ucdavis.edu

- **GLP training certificates will be sent to all attending**
  - If multiple people connected on one computer, send chat with all names + emails

- **Next Webinar:**
  Fall date to be announced