

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

FIELD RESEARCH DIRECTOR: _____

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: _____ Date: _____

Printed name: _____ 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: _____ 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: _____ 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: _____ 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: _____ Date Sent: _____

FIELD DATA BOOK REVISIONS FOR TRIAL YEAR 2019

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

Instr. Pg. 6	Pages in Part 10 (Protocol & Protocol Changes) do <u>not</u> need pagination <u>or field ID numbers</u> ; these pages are intended for reference for the field personnel while they are in possession of the Field Data Book.
1B	The Compliance Statement has been modified to split the adjuvant items into separate line items, thus removing the check-off at the right side of the table that has been a frequent source of confusion. “This page should be signed and dated just prior to the submission of the Field Data Book to the Regional Coordinator.”
4B	If test substance is removed for application to more than one plot (in this trial or in separate trials), list separately the amount of test substance removed for each plot.
4 Green Page	A prompt for Field Trial ID has been added to the top of the “green page” divider. Clarification has been added that documents <u>received with the test substance</u> should be inserted after the divider. The test substance label, if received from the supplier, <u>does not need to be included</u> in the Field Data Book, but it must be accessible to the field personnel during applications and to the QA auditor during a critical phase inspection. The label may be kept in a separate folder or notebook than this Field Data Book. The MSDS/SDS may be kept with the label, or it may be placed in Part 10 of this Field Data Book (so that it does not have to be paginated).
5A	The prompt for “County” has been replaced by a prompt for “EPA/PMRA/Mexican CROP PRODUCTION REGION_____ (For U.S. regions, see <i>Food and Feed Crops of the United States, Second Edition</i> , pp. 324-325.)” “County” had been added in the expectation that the crop production regions would soon be revised to be aligned with county borders. That has not occurred, so the Field Data Book now requests field personnel to enter the number of the crop production region in which the test plots are located. Regions are numbered 1-21.
6C2	The discharge rate in this table may be calculated for either the total boom volume or the mean nozzle volume. (This does not apply to the airblast-specific version of the table.)
9A	Weather records are required from the <u>date of planting or transplanting</u> 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. <u>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.</u> 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.

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 FROM PREVIOUS YEARS. DO NOT PASTE "Trial Year 2019" ONTO AN OLD VERSION OF A FIELD DATA BOOK PAGE.** (Inserts such as bills of lading do not need to have the Trial Year; 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
PART 1	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 history, and test crop records)
PART 6*	APPLICATION RECORDS (General equipment information, equipment calibration records, delivery rate calibration/calculations, treatment information, and environment records during treatment)
PART 7	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 & PROTOCOL CHANGES (formerly Part 10)—This part may be kept in the back of the FDB, or moved to the front of the FDB (ahead of Part 1), or inserted between other FDB Parts.	

*Part 6 is available in versions specific for airblast applications and for greenhouse trials. If you intend to apply the test substance in this study via airblast you should use the pages entitled "PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER". If you have been assigned a greenhouse trial you should use the pages entitled "PART 6. APPLICATION RECORDS-GREENHOUSE TRIALS". If you have not received the appropriate Part 6, then you should contact your 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.
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 FDB 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). Inserted printouts do not need blank areas lined out.
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	LE=Late Entry	SP=Spelling Error
CE=Calculation Error	ME=Measurement Error	TE=Transcription Error
EE=Entry Error	NA=Not Applicable	UE=Unnecessary Entry
IE=Illegible Entry	NI=New Information	NR=Not Recorded
IW=Inappropriate Word	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/SDS for the test substance and adjuvant are not needed in the FDB, though copies 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. Multi-page 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 Part 10 (Protocol & Protocol Changes) do not need pagination or field ID numbers; these pages are intended for reference for the field personnel while they are in possession of the Field Data Book. 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.

Example: PAGES ADDED TO THE FIELD DATA BOOK AFTER INITIAL PAGINATION			
FDB Part	Identity of inserted pages (e.g. 6A-B, 9A)	Initials	Date
6	7A, 14A	MJ	8/8/18
7	2A, 14B		
4	3A-C	ML	10/1/18
5	1A	KH	2/28/19
6	7B-F, 14C, 20A		

Note: The broken lines under initials and dates are intended to indicate hand-drawn lines. It is not necessary to actually draw the lines broken up this way; they may be continuous.

IR-4 HQ/October 2018

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.

Field ID No. _____

PAGES ADDED TO THE FIELD DATA BOOK AFTER INITIAL PAGINATION			
IMPORTANT: The information below is added by the person who inserts the new pages into the <u>original</u> Field Data Book, <u>not</u> the field cooperators who are sending the new pages. Each row of the table should include only pages entered within one Part on one date; all entries made on one date should be initialed and dated <u>once</u> 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 (see pg. 6 for example).			
FDB Part	Identity of inserted pages (e.g. 6A-B, 9A)	Initials	Date

Do not line out unused portions of this table.
(Additional “Pages Added” tables may be inserted if needed.)