

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

A. EQUIPMENT

*INSTRUCTIONS: Complete a separate form for **each piece** of test substance application equipment used in the trial.*

EQUIPMENT USED FOR **APPLICATION NUMBER(S)** _____

EQUIPMENT IDENTIFIER¹ _____

¹*Each test substance application equipment must have a unique identifying name or code*

APPLICATION EQUIPMENT TYPE (Check one) TRACTOR _____ BACKPACK _____ GRANULAR _____

OTHER _____ (Describe) _____

PROPELLANT (Check one) CO₂ _____ COMPRESSED AIR _____ PUMP _____

OTHER _____ (Describe) _____

TYPE OF APPLICATION (Check all that apply)

1) FOLIAR _____ TO THE GROUND _____

2) BROADCAST _____ BANDED _____ DIRECTED _____ IN-FURROW _____

3) OTHER _____ (Describe) _____

NUMBER OF PASSES THAT ARE NEEDED TO TREAT THE PLOT _____

NUMBER OF NOZZLES OR HOPPER OUTLETS USED			
MESH SIZE USED IN THE STRAINERS		SPACING BETWEEN NOZZLES OR HOPPER OUTLETS	
NOZZLE BRAND/TYPE/SIZE (e.g. T-JET 8004, even flat fan):			

TREATED AREA² _____

²*Calculated width of nozzle discharge pattern (CWNDP) at proper boom height X length of plot sprayed or treated. For a broadcast application, CWNDP = (# of nozzles X nozzle spacing). For a banded application, CWNDP = # of nozzles X swath per nozzle. If application is foliar or soil directed enter row width X # of rows X length of plot sprayed or treated; treated row width may differ from actual row width when the actual row width is wider or narrower than local commercial practices. In this circumstance, the application rate should be calculated using a local commercial row width, and an explanation should be included on this page or inserted behind this page. Contact the Study Director if guidance is needed.*

DOES TREATED AREA = PLOT AREA (from Parts 5C and 5F)? YES _____ NO _____

IF NO, PLEASE EXPLAIN: _____

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE ____

Trial Year 2014

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

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. _____ INITIALS _____ DATE _____

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

B. DIAGRAM OF APPLICATION EQUIPMENT

EQUIPMENT USED FOR **APPLICATION NUMBER(S)** _____

*INSTRUCTIONS: Complete a separate form for **each piece** of test substance application equipment used in the trial. Sketch a diagram and/or provide clear photograph of application equipment. Include the relative location and size of the target crop and the nozzle/hopper outlet placement and application pattern in relation to crop, in the sketch or photograph. In addition, on the sketch or photograph assign each nozzle or hopper outlet a unique number.*

Drawing Not to Scale

PLOT Area Description:

Number of Beds = _____

Bed Spacing = _____

Plant Lines per Bedtop= _____

Number of passes= _____

TRT. 01 Plot Length= _____

TRT. 02 Plot Length= _____

TRT. 03 Plot Length= _____

TRT. 04 Plot Length= _____

TRT. 05 Plot length = _____

Plot Area= _____ FT. X _____ FT. X _____ Beds= _____ SQ.FT.

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE ____

Trial Year 2014

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

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS**C. DISCHARGE CALIBRATION FOR APPLICATION NUMBER _____**

INSTRUCTIONS: Complete a copy of this form (PHOTOCOPY IF NECESSARY) for additional times when a complete calibration or calibration-recheck of application equipment is required.

EQUIPMENT IDENTIFIER _____

DISCHARGE CALIBRATION DATE _____ PERFORMED BY _____ (INITIALS)

APPROXIMATE TIME OF DAY THAT THE CALIBRATION WAS PERFORMED _____

PRESSURE OR OTHER STANDARD SETTING UTILIZED IN CALIBRATION _____

DISCHARGE UNITS MEASURED (e.g. ml, oz., grams) _____

INSTRUMENT USED TO MEASURE WATER (e.g. 100 ml graduated cylinder) _____

BRIEFLY DESCRIBE PROCEDURE USED TO CHECK DISCHARGE CALIBRATION _____

DISCHARGE CALIBRATION Record time applicator is allowed to discharge. Collect output from each nozzle or hopper. Record this value in "RUN" Row 1 under the appropriate outlet. Calculate the total and average discharge for all the nozzles/hoppers. Entry prompts have been provided for 3 discharge calibration runs. Calculate sums and averages of each nozzle/hopper outlet AND whether the results are within 5% (if applicable). Show all calculations.

Nozzle/hopper Outlet AND whether the results are within 5% (if applicable). Show all calculations.															
RUN	TIME (sec)	Nozzle/hopper Outlet Number Along Boom (see equipment diagram for nozzle numbers)													
		1	2	3	4	5	6	7	8	9	10	11	Total	Output/ Nozzle	Output/ Second
1															
2															
3															
Total (required)															
Average (optional)															

CALCULATIONS: :

Total Boom: _____ ml = _____ ml

_____ ml = _____ ml/nozzle avg.

_____ runs

_____ nozzles

Total Boom Output: _____ ml = _____ ml/sec

_____ sec.

(+/- 5%) Nozzle Range = _____ ml, _____ ml

(+/- 5%) Boom Range = _____ ml, _____ ml

Was this a recheck of discharge calibration or a target output?

(Check one) YES _____ NO _____

If yes, were results within 5% of original calibration or target output?

(Check one) YES _____ NO _____

If this is a 3-discharge calibration run, are the averages (last column on

the right) of the second and third runs within 5% of the first run?

(Check one) YES _____ NO _____

An output consisting of an average of three runs or a target output may be used when calculating the sprayer output and amount of test substance to use. If this is a recheck (one run) then the results of the original calibration must be used. If the output result of the recheck is more than 5% different than the original calibration result, then two more runs are needed to produce a new, full calibration. The original calibration data, or a true copy, must be in this field data book.

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE ____

Trial Year 2014

COMPLETE IF APPROPRIATE:

"THIS IS A TRUE COPY OF THE ORIGINAL"

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. _____ INITIALS _____ DATE _____

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

E. DELIVERY RATE CALIBRATION FOR APPLICATION NUMBER(S) _____

INSTRUCTIONS: Complete a separate form for each application, unless the same parameters are used-- you are using the same equipment, and have performed a recheck to confirm the result of the full calibration. Determine the rate of delivery from the application equipment. Briefly describe the procedure, including formulas used to determine delivery rate calibration. Show all calculations and units. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here. Computer-generated values (as opposed to those entered by the field cooperators) must be reviewed and clearly delineated by circling, initialing, and dating.

PROCEDURE/FORMULA:

Desired Protocol Application Output = _____

Calibrated Boom Output = _____ **ml / sec. (from Part 6C)**

Calibrated Mean Pass Time = _____ **sec. (from Part 6D)**

Spray Area= _____ **sq. ft.**

Number of Passes = _____

CALCULATIONS:

_____ **ml/ sec. X** _____ **sec. X** _____ **Pass (s) =** _____ **ml required to cover spray area**

_____ **ml required**

_____ **=** _____ **ml / sq.ft. X 43560 sq.ft. =** _____ **ml/Acre**

_____ **Sq. ft**

_____ **ml/Acre =** _____ **Gallons per Acre Output**
3785 mls/Gallon

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE _____

Trial Year 2014

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

IR-4 FIELD DATA BOOK

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

IR-4 FIELD DATA BOOK

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

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

G. APPLICATION INFORMATION FOR APPLICATION NUMBER _____ APPLICATION DATE _____

HAS THE APPLICATION EQUIPMENT BEEN USED SINCE THE LAST CALIBRATION/RECHECK WAS PERFORMED? (Check one) YES _____ NO _____
(If YES, then a recheck is needed.)

INSTRUCTIONS: Complete a separate form for each application date. Complete one column for each treated plot (use the Treatment Number as indicated in the protocol). Provide the name of the test substance (common chemical name or chemical code number); the batch or lot number of the test substance; the approximate time the test substance was mixed with the carrier and the approximate time the mixture was applied to the plots, along with the initials of the person(s) mixing and spraying the tank mix; the time of additional agitation (if any); the unique name or code for the application equipment used to apply this treatment; the placement of the test substance (e.g. broadcast, in-furrow, directed, knifed-in, banded); the amount of carrier, formulated product and other additives in the mix; the measuring equipment with increments; the distance (include units) of the nozzles above the canopy or ground (indicate which); the pressure in pounds per square inch at the boom; if treatment(s) were incorporated, the method and/or equipment used to incorporate the test substance mix (e.g. disked, rotovator, irrigated, etc.), depth to which the test substance was incorporated or the amount of water used to move the test substance into the soil; the time after treatment the incorporation activity was performed; and the carrier (normally water), its source (e.g. farm pond, city water), pH of the carrier and its temperature, and the equipment used to measure the carrier pH.

		TRT Number _____	
NUMBER OF DAYS SINCE PREVIOUS APPLICATION		TIME OF ADDITIONAL AGITATION/INITIALS (if applicable) e.g. "10:00" or "continuous" or "just prior to application"	
TEST SUBSTANCE			
BATCH/LOT NUMBER			
TIME MIXED/INITIALS			
TIME APPLIED/INITIALS			
EQUIPMENT IDENTIFIER			
PLACEMENT OF TEST SUBSTANCE			
TANK MIX AMOUNTS			
CARRIER (starting volume of water)		MEASURING EQUIPMENT with INCREMENTS*	
VOLUME of WATER REMOVED from starting volume (if applicable)			
TEST SUBSTANCE (formulated product)			
ADJUVANT OR SURFACTANT			
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			

ABOVE DATA ENTERED BY: _____ DATE: _____

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

H. ADDITIONAL INFORMATION FROM **APPLICATION NUMBER** _____

APPLICATION DATE _____ (Complete a separate form for each application date)

PLANT GROWTH & ENVIRONMENTAL DATA AT THE TIME OF APPLICATION		Enter data in this column
CROP HEIGHT (<i>Measure or estimate crop height, include units of measurements</i>)		
CROP GROWTH STAGE (<i>e.g. seed, vegetative, bud, bloom, fruiting, #true leaves</i>)		
CROP VIGOR (<i>e.g. poor, fair, good, variable</i>)*		
PLANT SURFACE MOISTURE (<i>Check one</i>)	SATURATED ___ DAMP ___ DRY ___ NA ___	
ESTIMATED % OF SOIL AREA COVERED BY CROP CANOPY		
MEASURED AIR TEMPERATURE (<i>Check F or C</i>)		°F___ °C___
MEASURED WIND SPEED (<i>Check MPH or Km/Hr</i>)		MPH___ Km/Hr___
WIND DIRECTION FROM (<i>Check one</i>)	N___ NE___ E___ SE___ S___ SW___ W___ NW___ or NO WIND___	
ESTIMATED % OF CLOUDS IN THE SKY		
MEASURED RELATIVE HUMIDITY%		
DEW (<i>heavy, light, none, etc.</i>)		
DESCRIPTION OF SOIL TILTH (<i>smooth, firm, packed, cloddy, etc.</i>)		
ESTIMATE OF SOIL SURFACE MOISTURE (<i>wet, moist, dry, etc.</i>)		
SOIL TEMPERATURE (<i>Check F or C</i>)		°F___ °C___
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (<i>Check INCHES or cm</i>)		INCHES___ cm___

*IF CROP VIGOR IS POOR OR VARIABLE, EXPLAIN: _____

BRIEFLY DESCRIBE PROCEDURE USED TO CLEAN APPLICATION EQUIPMENT _____

_____ CLEANED BY _____ (Initials)

ABOVE DATA ENTERED BY: _____ DATE: _____

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

I. PASS TIMES FOR APPLICATION NUMBER _____

APPLICATION DATE _____ (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 __		TREATMENT __		
PASS NUMBER	TIME	DIRECTION	PASS NUMBER	TIME	DIRECTION
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
TOTAL PASS TIME					

PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION

(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.")

[illegible]

NARRATIVE ENTERED BY _____ (Initials)

ABOVE DATA ENTERED BY: _____ DATE: _____

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

J. POST APPLICATION RATE CONFIRMATION FOR **APPLICATION NUMBER** _____

APPLICATION DATE _____ (COMPLETE A SEPARATE FORM FOR EACH APPLICATION DATE)

CALCULATION OF ACTUAL APPLICATION RATE - Using information such as total pass time, plot size, tank mix amounts, and discharge rate (average of 3 outputs) determine the actual amount of formulated test substance applied to treated plots. Even if a target rate was used for the pre-application calculations, the data from the calibration (average of 3 outputs) must be used for calculating the application rate. (If the protocol does not include a rate of formulated product, then the amount of active ingredient should be determined.) Convert this amount to the amount applied per acre (or hectare), and determine deviation from target application in the protocol, rounded to the nearest whole percent. Show all calculations and label all units. **It is not sufficient to merely compare the actual pass times to the "practice" pass times.** The example formulas listed at the bottom of 6J may be used to calculate the application rate. Calculations may be entered on a separate page placed after this one, if there is not enough space below.

EXAMPLE FORMULAS: The formulas below may be used to calculate the amount of test substance (TS) applied per acre as required in Part 6I. Other formulas may be used instead; however, it is not sufficient to merely compare the actual pass times to the "practice" pass times.

- 1) Total Pass Time x Discharge Rate/Nozzle x #Nozzles = Volume of Tank Mix applied to Plot
- 2) Volume of Tank Mix applied to Plot x $\frac{\text{Amount of TS in Tank Mix}}{\text{Total Volume of Tank Mix}}$ = Amount of TS applied to Plot
- 3) Amount of TS applied to Plot x $\frac{43,560 \text{ sq ft per acre}}{\text{Plot area treated in sq ft}}$ = Amount of TS applied per acre

DISCHARGE RATE (ml/sec or g/sec): _____

ACTUAL AREA TREATED (swath width or treated row or bed width x # of passes x length of plot): _____

Note: Use bed width for plots with multi-row beds.

WAS ACTUAL APPLICATION RATE WITHIN -5% TO +10% OF PROTOCOL RATE?

(Check one) YES _____ NO _____

IF NO, **Contact the Study Director immediately.**

ABOVE DATA ENTERED BY: _____ DATE: _____

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

K. POST TREATMENT RECORDS FOR APPLICATION NUMBER _____

APPLICATION DATE _____ (Complete a separate form for each application date)

Was There Any Visible Phytotoxicity Damage? (Check one) YES____ NO____ (Initials/date)

If YES, then contact the Study Director. If a digital camera is available, email digital photograph(s) to the Study Director along with a detailed explanation of the damage. A written description should also be entered below:

PHYTOTOXICITY DESCRIBED BY: _____ (Initials/date)

DATE STUDY DIRECTOR WAS CONTACTED: _____ CONTACTED BY: _____ (Initials/date)

Enter the requested information below for both the first rainfall and first irrigation after each application, regardless of whether subsequent applications were made prior to the first rainfall or irrigation. The rainfall/irrigation data entered below should be transcribed from the data included in Part 9 unless otherwise indicated on this page. If irrigation is required by the protocol to incorporate the test substance, or if the test substance is applied by irrigation, then that event should be recorded below. **“NONE BEFORE HARVEST” OR “NONE BEFORE SAMPLING” MAY BE ENTERED, IF APPLICABLE.**

DATE OF FIRST RAIN (Note the date of first rainfall after this application.)	
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED TO FIRST RAINFALL (Check DAYS or HOURS) (Enter #hours if first rainfall was <u>on the date of application.</u>)	DAYS____ HOURS____
AMOUNT OF WATER (Check INCHES or mm)	INCHES____ mm____
RAIN INFORMATION RECORDED BY (Initials/date)	
TYPE OF IRRIGATION (e.g. overhead, trickle, flood)	
DATE OF FIRST IRRIGATION (Note the date of first irrigation after this application.)	
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED TO FIRST IRRIGATION (Check DAYS or HOURS) (Enter #hours if first irrigation was <u>on the date of application.</u>)	DAYS____ HOURS____
AMOUNT OF WATER (Check INCHES, mm, or mL)	INCHES____ mm____ mL____
IRRIGATION INFORMATION RECORDED BY (Initials/date)	

If the data entered above differ from the rainfall/irrigation data included in Part 9, explain: _____

Initials/date: _____

PART 6 PAGE ____

Trial Year 2014

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

THE ORIGINAL IS IN FIELD DATA BOOK NO. _____ INITIALS _____ DATE _____

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

L.1. DIFFERENTIATION OF MULTIPLE TRIALS CONDUCTED IN CLOSE PROXIMITY*

ARE YOU CONDUCTING MORE THAN ONE TRIAL IN THIS STUDY? YES___ NO___

IS ANOTHER FIELD RESEARCH DIRECTOR IN THIS STUDY
CONDUCTING A TRIAL WITHIN 20 MILES OF YOUR TRIAL(S)? YES___ NO___

If "NO" is checked twice, then no other input is needed except for signing and dating at the bottom of each page.

If "YES" is checked at least once, then an independently prepared tank-mix must be used in each trial, except in studies in which this is not applicable such as studies with granular formulations.

In order to differentiate these trials, select one option from Set 1 OR two options from Set 2.

If 3 or more trials in this study cannot be differentiated by the same options, then you should check all options that have been used, and explain below which options are differentiating between which trials.

If different crop varieties are being used as a differentiation option, then enter below information that explains why these varieties were chosen. Examples: Variety A produces large fruit, whereas Variety B produces small fruit. Variety A produces fruit with a smooth skin, whereas Variety B produces fruit with a rough skin. Varieties A and B are the two most commonly grown cultivars in this state.

If options are used that are listed in the protocol but are not listed in the table in Part 6.L.2, then enter descriptions of those options below.

Enter below any additional information that will improve the understanding of the options that have been chosen.

*Trials conducted in different calendar years are exempt from these requirements. (If separate trials by the same person or within 20 miles are conducted in late fall/early winter, then the differentiation options should be used to reduce the possibility of data rejection by a regulatory agency.)

Trial IDs of other trials in this study to which these options are being applied:

Additional information:

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE ____

Trial Year 2014

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

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS**L.2. DIFFERENTIATION OF MULTIPLE TRIALS (IF YOU CHECKED "YES" ON THE PREVIOUS PAGE)**

Check the options (in the third column) used to differentiate the trials that you are conducting in this study:

Set	Option	✓	Description
1	A		Trial sites must be separated by at least 20 miles (32 km)
	B		First application or planting date (for annual crops) in each trial is separated by at least 30 days
	C		Different crop variety (different size or shape at maturity, rough vs. smooth surface, different amount of foliage shielding the commodity, different rate of growth, or representative of the major varieties grown within the region)—confirm with Study Director if this option will be chosen
2	A		Spray volume must vary by at least 25% of the lower volume (minimum 10 GPA difference) Example 1, Trial A has a volume of 20 GPA and Trial B has a volume \geq 30 GPA Example 2, Trial A has a volume of 60 GPA and Trial B has a volume \geq 75 GPA The trial with the lowest spray volume for the first application must remain the lowest for each application; the trial with the highest must remain the highest for each, and so on
	B		Use of an adjuvant (of any suitable type) in the tank mix for one trial vs. <u>no adjuvant</u> in the tank mix for another trial
	C		Different foliar application type: foliar directed or foliar broadcast (Do not use this option if the label instructions for this commodity will specify one type or the other)
	D		Different granular application type: broadcast or banded (only if label supports both types)
	E		Different types of application equipment be used in each trial (for example, tractor-pulled boom sprayer, tractor-pulled spreader, airblast sprayer, axial fan orchard sprayer, proptec sprayer, cannon mist sprayer, tower sprayer, over-row sprayer, tunnel sprayer, backpack sprayer, waist pack sprayer, hand gun, hand-held spreader, or shaker can)
	F		Different spray droplet size (fine, medium, coarse, very coarse, or extra coarse) This may be accomplished by changing nozzles and/or by changing spray pressure Document in the Field Data Book the droplet size that results from the pressure and nozzles used in the trial (nozzle catalog may be used as a reference) Coarse, very coarse, and extra coarse are appropriate for herbicides only
	G		Different incorporation method for soil-applied test substance: mechanical or irrigation
	H		Different band width for soil applications: band width must vary by at least 50% of the lower width
	I		Different irrigation type (drip or furrow or sprinkler/over-the-top) (Irrigation must be applied at least once after each application, but over-the-top irrigation must not be applied within one hour of an application, and irrigation is not needed following the last application if samples are to be collected on the same day)
	J		For test substances that must be applied through drip irrigation: surface drip line or buried drip line
	K		Different planting arrangement for annual crops: single row beds or multi-row beds (two or more rows on each bed)
	L		One trial shall have trellised plants and the other shall not
	M		Different training system for fruit trees (for example, central leader or open center)
	N		Different maturity of trees or bushes in fruit and nut studies—young trees or bushes in one trial and mature trees or bushes in the other (minimum 5 year age difference); all trees/bushes must be commercially productive
	O		Different soil series, type, or texture (only in trials in which applications are made to the soil)
	P		Different formulations of the test substance (within the types generally considered equivalent) (This option may be used only if the alternate formulation is included in Section 13 of this protocol or is added by protocol amendment)

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE ____

Trial Year 2014

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. _____ INITIALS _____ DATE _____

FIELD ID NO: _____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

M. APPLICATION EQUIPMENT MAINTENANCE AND REPAIR LOG

INSTRUCTIONS: Complete this form or provide equivalent information. Provide dates and a brief description of maintenance and repair work completed on the application equipment relevant to this trial. Be sure to date and initial all entries.

APPLICATION EQUIPMENT IDENTIFIER _____

EQUIPMENT USED FOR **APPLICATION NUMBERS** _____

INITIALS/DATE _____

RECORD DATES AND BRIEF DESCRIPTION OF ANY CALIBRATION, MAINTENANCE AND REPAIR WORK DONE ON THE APPLICATION EQUIPMENT, OR ATTACH TRUE COPIES OF THE LOGS.

ALSO RECORD SOP# FOLLOWED, IF APPLICABLE.

Initials and Date	Was Maintenance or Repair routine? (Check one)		SOP#	Description
	Yes	No		

PART 6 PAGE ____

Trial Year 2014

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