FIELD ID NO:	
IR-4 FIELD	DATA BOOK

A. EQUIPMENT	
INSTRUCTIONS: Complete a separate form for each piece	of test substance application equipment used in the trial.
EQUIPMENT USED FOR ${\bf APPLICATION\ NUMBER(S)}$	
EQUIPMENT IDENTIFIER¹	
APPLICATION EQUIPMENT TYPE (Check one) TRAC	CTOR BACKPACK GRANULAR
PROPELLANT (Check one) CO ₂ COMI	PRESSED AIR PUMP
TYPE OF APPLICATION (Check one) SOIL BROADCAST SOIL BANDED IN-FURROW (SEED ROW) IN-FU OTHER (Describe) NUMBER OF PASSES THAT ARE NEEDED TO TREAT	D SOIL DIRECTED URROW (BETWEEN ROWS)
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 AREA ²	
For a broadcast application, CWNDP = (# of nozzl nozzles X swath per nozzle. If application is foliar a plot sprayed or treated; treated row width may diff narrower than local commercial practices. In this	NDP) at proper boom height X length of plot sprayed or treated. les X nozzle spacing). For a banded application, CWNDP = # of directed or soil directed enter row width X # of rows X length of for from actual row width when the actual row width is wider or circumstance, the application rate should be calculated using a mould be included on this page or inserted behind this page.
DOES AREA USED FOR APPLICATION RATE CALCS.	= PLOT AREA (from Parts 5C/5D)? YESNO
	ES" above unless local commercial row widths are used instead of tended to help data reviewers calculate the applic. rates correctly.)
ABOVE DATA ENTERED BY:	DATE:
PART 6 PAG	GE Trial Year 2021
Total number of pages in this section at initial pag	ination:
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO	OF THE ORIGINAL"

FIELD ID NO:
IR-4 FIELD DATA BOOK
DS

PART 6. APPLICATION RECORD	S
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PART 6 PAGE	Trial Year 2021
ABOVE DATA ENTERED BY:	
Include the following required items in the sketch or imag 1) Relative location and size of the target crop 2) Nozzle or hopper outlet placement in relation to c 3) Application pattern in relation to crop 4) Assign each nozzle or hopper outlet a unique num	rop
B. DIAGRAM OF APPLICATION EQUIPMENT EQUIPMENT USED FOR APPLICATION NUMBER(S) <i>INSTRUCTIONS: Complete a separate form for each piece of diagram and/or provide clear photograph or other image of applications.</i>	
PART 6. APPLICATION RECORDS	

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FIELD ID NO:	
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IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS

C. DISCHARGE CALIBRATION FOR APPLICATION NUMBER	
--	--

INSTRUCTIONS: Use this form when conducting full (3-run) calibrations or rechecks. If conducting a recheck, please provide calculations to verify that the output is within $\pm -5\%$ of the most recent full calibration.

please provide calculatio	ns to	verify that the out	put is within +/-5	% of the	most recei	ıt full cali	bration.
If you are conducting a 3	3-run	target check, ple	ase use the 3-run	target cl	heck form	provided	on the IR-4 websit
EQUIPMENT IDENTIFIEI	₹						
DISCHARGE CALIBRAT	ION D	ATE	TIME	P	ERFORME	ED BY	(INITIAL
LOCATION WHERE THE	CALI	BRATION WAS F	PERFORMED				
INSTRUMENT USED TO	MEAS	SURE WATER (e.g	g. 100 ml graduated	d cylinder)			
BRIEFLY DESCRIBE PRO	OCEDI	URE USED TO CH	IECK DISCHARG	E CALIB	RATION_		
DDEGGIDE (.)			I D HTC	· 1			
PRESSURE (psi)					grams)		
Output Run Num		1	2	3		T .1.	1 10
Nozzle/Hopper	1					Is thi	s a recheck?
Outlet Number Along Boom	2					37	•
(If more than 6 nozzles,	3					Y	es lo
use the alternate form	4					1	10
<u>Part-6C. Large Boom</u> provided on the	5						
website.)	6					Total	
Total Boom Vol	ume				A		
Mean per nozzle or o	utlet				В		
Time (seco	nds)				С		
Discharge	Rate				Av	erage	te* D
		1.10.5.15					
Indicate whether discharge rate	is calc	culated for: Total Boo	m Volume Me	an Nozzle	Volume	_	*(A or B)/C=D
Is the discharge rate of ea	ich ru	n within 5% of th	e mean?		YES	_ NO	NA
Are individual nozzle out	puts v	within 5% of the r	nean during each	run?	YES	_ NO	NA
If this is a recheck, are re	sults v	within 5% of orig	inal output?		YES	_ NO	NA
ABOVE DATA ENTERED	BY:					DAT	E:
			6 PAGE			Tria	1 Year 2021
COMPLETE IF APPROPRIA	ГЕ:	"THIS IS A TRUE	COPY OF THE ORI			DATE	
THE ORIGINAL IS IN IR-4 F	ו עועוו	2.111 DOOK NO	1				

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

D. SPEED CALIBRATION FOR APPLICATION OF APPLICATION	CATION NUMBE	R (S)			
INSTRUCTIONS: Complete a separate for application equipment is required.	m for additional tin	nes when a comple	ete calibration	or cali	bration- recheck of
EQUIPMENT IDENTIFIER					
SPEED CALIBRATION DATE					(INITIALS)
TERRAIN OF CALIBRATION TRACK (e.g. tilled field)				
LOCATION WHERE THE CALIBRATIC	ON WAS PERFORI	MED			
BRIEFLY DESCRIBE PROCEDURE US	ED FOR SPEED C	ALIBRATION _			
GEAR RPM	LENGTH OF T	EST TRACK (inc	lude units)		
SPEED CALIBRATION: Calculate the sp					
setting used in the speed calibration. Indicate					
was tested to determine speed (e.g. speed of	of application equip	ment tested for 10	0 ft.). Entry p	rompts	have been provided for 2
additional runs. If this is a recheck, calcul					
recheck (one run) is required whenever as are made on the same day on the same far		performea, excep	ot for multiple	арриса	itions within a study that
					TARGET OR
RUN # 1 2	3	TOTAL	AVERAG	GE	ORIGINAL
					CALIBRATION TIME
TIME (sec)					
CALCULATIONS:					
WAS THIS A RECHECK OF SPEED CA	LIBRATION?		(Check one)	YES_	NO
IF YES, WERE RESULTS WITHIN 5% C				YES_	NO
The original calibration data, or a true cop	py, must be in this fi	ield data book.			
NOTE: A target speed may be used for appfull speed calibration must be conducted, a	plication calculation	as rother than the	mean of three	runs, b	ut for each application a
WAS THIS A CHECK OF A TARGET SE	and the mean of the		within 5% of	the targ	get speed. NO
	and the mean of the PEED?	three runs must be	within 5% of	the targ	get speed.
WAS THIS A CHECK OF A TARGET SE	and the mean of the PEED? OF TARGET SPEE	three runs must be	e within 5% of (Check one)	Tthe targ YES_ YES_	get speed NO NO
WAS THIS A CHECK OF A TARGET SE IF YES, WERE RESULTS WITHIN 5% C	and the mean of the PEED? OF TARGET SPEE	three runs must be	e within 5% of (Check one)	the targ YES_ YES_ DAT	get speed NO NO

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 paraequipment, and have performed a recheck to confirm the result of the full calibration. application equipment. Briefly describe the procedure, including formulas used to dete all calculations and units. Equations used in electronic (computer software) calculation printed out and attached here.	Determine the rate of delivery from the rmine delivery rate calibration. Show
PROCEDURE/FORMULA:	
CALCULATIONS.	
CALCULATIONS:	
PROTOCOL SPECIFIED SPRAY VOLUME (from Part 15, in gallons per acre or liter Enter "NA" if a spray volume is not applicable.	s per hectare):
ABOVE DATA ENTERED BY:	DATE:
PART 6 PAGE	Trial Year 2021

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FIELD ID NO: _	
IR-4 FIELD I	DATA BOOK

F. VOLUME, MIXING AND DILUTION CALCULATIONS FOR APPLICATION NUMBER(S)	
INSTRUCTIONS: Complete a separate form for each application, unless there are no changes in multiple applications. Stalculations, formulas, and results below, and define units of measure. Equations used in electronic (computer software) calculations in this trial must be transcribed or printed out and attached here.	iow all

CALCULATIONS ENTERED BY:	DATE:
AREA TO LOCATION OF TANK MIXING (E.g.: "Test si	BSTANCE AND ADJUVANT (if applicable) FROM STORAGE ubstance held securely in an insulated cooler during transport to d within walking distance of the chemical storage building")
NARRATIVE ENTERED BY:	DATE:
PART 6 PAC	GE Trial Year 2021
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FIELD ID NO:	
IR-4 FIELD	DATA BOOK

eatment Number as indicated in the protocol).	
	TRT Number
NUMBER OF DAYS SINCE PREVIOUS APPLICATION	TIME OF ADDITIONAL AGITATION (if applicable)
TEST SUBSTANCE	e.g. "10:00" or "continuous" or "just protection"
BATCH/LOT NUMBER TIME MIXED/BY WHOM ¹	to application
TIME APPLIED/ BY WHOM ¹	
EQUIPMENT IDENTIFIER	
APPLICATION TYPE ² (e.g., foliar broadcast, soil directed)	
TANK MIX AMOUNTS	MEASURING EQUIPMENT with INCREMENTS*
CARRIER (starting volume of water)	
VOLUME of WATER REMOVED from starting volume (if applicable)	
TEST SUBSTANCE (formulated product)	
ADJUVANT	
TOTAL VOLUME OF TANK MIX	*e.g. 1000 mL grad. cylinder/10 mL i
NOZZLE DISTANCE from TARGET	ORDER IN WHICH ITEMS WER ADDED TO SPRAY MIXTURE*
PSI AT BOOM	W=Water, TS=Test Substan A=Adjuvant
INCORPORATION - Methodology and/or Equipment - DEPTH - TIME	*e.g. 1-W, 2-TS, 3-A, 4-
CARRIER SOURCE/TYPE	
CARRIER pH/TEMPERATURE	
EQUIPMENT used to MEASURE pH	

PART 6 PAGE ____

Trial Year 2021

FIELD ID NO: _	
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IR-4 FIELD DATA BOOK

H. ADDITIONAL I	NFORMATION FROM AF	PLICATION N	UMBER				
APPLICATION DAT	TE	_(Complete a sep	oarate for	m for each a	pplication de	ate)	
PLANT GROWTH & ENVIRONMENTAL DATA AT THE TIME OF APPLICATION		Enter da	ta in this colun	nn			
CROP HEIGH	HT (Measure or estimate cro	pp height, include	units of n	ieasurement	s)		
CROP GROW	TH STAGE (e.g. seed, vege	tative, bud, bloom	, fruiting	#true leave	s)		
	CROP	VIGOR (e.g. poor	r, fair, go	od, variable)*		
	PLANT SURFACE MOIST	TURE (Check one	e) SAT	URATED_	DAMP	DRY_	_ NA_
	ESTIMATED % OF SOIL	AREA COVEREI	D BY CR	OP CANOP	Y		
MEASUR	ED AIR TEMPERATURE	(Check F or C) (E	.g. 75 ^o	F <u>√</u> °C)	o _F	oC_
MEASURED WIN	ID SPEED (Check MPH or	Km/Hr) (E.g. 0.5	5 MPH <u>√</u>	_ Km/Hr)	MPH	Km/Hr_
WIND DIRECTION	FROM (Check one) N	NE E	SE	s sw	W	NW or N	O WIND_
	,	ESTIMATED %	6 OF CLO	OUD COVE	R		
	Ŋ	MEASURED REI	ATIVE I	HUMIDITY	%		
Г	DESCRIPTION OF SOIL TILTH (smooth, firm, packed, cloddy, etc.)						
ESTIMATE OF SOIL SURFACE MOISTURE (wet, moist, dry, etc.)							
SOIL TEMPERATURE (Check F or C)				C)	o F	o _{C_}	
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check INCHES or cm)			n)	INCHES_	_ cm_		
THE CROP VIGOR IS	S POOR OR VARIABLE, E	Arlain.					
	RED BY:E PROCEDURE USED TO C						
	ON(S) WHO CLEANED EC						
CLEANING DESCRI	PTION ENTERED BY:				DAT	E:	

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

	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		<u> </u>
9			9		
10			10		
11			11		
12			12		
TOTAL PASS TIME					
ABOVE DATA ENTERED E PROVIDE A BRIEF NARRA (E.g. "Test substance was app ast side. Each pass was appli	ΓIVE SUMMAR lied to the treate	Y OF THE APPLICA d test plot in two passe	TION AND IDENTIFY es; one pass down each s	WHO PERFOI	RMED IT:
WERE THERE ANY PROBLE If YES, then contact the Study I APPLICATION WAS MADE	Director as soon	as possible.		_	
NARRATIVE ENTERED BY				DATE: _	

PART 6 PAGE ____

Trial Year 2021

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

PART 0. APPLICATION RECORDS	
J. POST APPLICATION RATE CONFIRMATION FOR APPLICATION N	IUMBER
APPLICATION DATE	
CALCULATION OF ACTUAL APPLICATION RATE AND SPRAY VOLU target rate was used for the pre-application calculations, the data from the cal calculating the application rate. Convert this amount to the amount applied p target application in the protocol, rounded to the nearest whole percent.	libration (average of 3 outputs) must be used for
3785 ml Plot area treated in sq ft %DEVIATION FROM THE PROTOCOL RATE SHOULD BE ROUNDED I	ficient to merely compare the actual pass times to ount of TS applied to Plot pplied per acre = Spray Volume in gallons per acre (GPA) LIKE THIS: -5% OR THIS: +10% ***********************************
WAS ACTUAL APPLICATION RATE WITHIN -5% TO +10% OF PROTOCOLOGY (Check one) YES NO IF NO, Contact WAS ACTUAL SPRAY VOLUME WITHIN THE PROTOCOL RANGE? (Check one) YES NO NA IF NO, Contact	et the Study Director immediately.
ABOVE DATA ENTERED BY:	DATE:
PART 6 PAGE	Trial Year 2021

FIELD ID NO:	
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IR-4 FIELD DATA BOOK

K. POST TREATMENT RECORDS FOR APPLICATION NUM	BER	
APPLICATION DATE		
Was There Any Visible Phytotoxicity? (Check one) YES N	0	
If YES, fill in the box below* and contact the Study Director. Provide	de a detailed description and	if possible email pictures.
Is a phytotoxicity rating required in the protocol? YES No.	O If YES, fill in the b	oox below*
Date Crop Was Observed:	Initials/date:	
*Alternatively, a separate sheet with a description of the phytotoxic	ity may be inserted at the back	ck of Part 6.
DESCRIPTION OF PHYTOTOXICITY SYMPTOMS:		
PHYTOTOXICI	TY DESCRIBED BY:	(Initials/date)
DATE STUDY DIRECTOR WAS CONTACTED: (Initials/date)	CONTACTED BY:	
Enter the requested information below for <u>both</u> the first rainfall and	£	1:4:
subsequent applications were made prior to the first rainfall or irrigateranscribed from the data included in Part 9 unless otherwise indicate incorporate the test substance, or if the test substance is applied "NONE BEFORE HARVEST" or "NONE BEFORE SAMPLING."	ed on this page. If irrigation by irrigation, then that evo	on is required by the protocol to ent should be recorded below.
DATE OF FIRST RAIN AFT	ER THIS APPLICATION	
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSE (Check DAYS or HOURS) (Enter #hours if first rainfall was a		DAYS HOURS
(eneer 21118 or 110 016) (2.11er miestrs g.j.mar rangan was		
	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 AFT	ER THIS APPLICATION	
TIME AFTER APPLICATION THAT PLOTS WE		DAYS
(Check DAYS or HOURS) (Enter #hours if first irrigation was g	IRRIGATION	HOURS
(Check DATS of HOOKS) (Enter miours if first irrigation was i	on the dute of application.)	
	AMOUNT OF WATER	INCHES
(C.	heck INCHES, mm, or mL)	mm mL
IRRIGATION INFORMATION RECORDED		
BY(Initials/date)		
If the data entered above differ from the rainfall/irrigation data inclu	ided in Part 9, explain:	
	Initials/date:	
PART 6 PAGE	_	Trial Year 2021
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FIELD ID NO:	
IR-4 FIELD	DATA BOOK

L. 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 30 kilometers (18.6 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 the list below.
If <u>3</u> 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 whereas 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. Variety A has heavy foliage that shields the commodity, whereas Variety B has light foliage that exposes the commodity more.
If options are used that are listed in the protocol but are not listed in the table below, then enter descriptions below
*Trials conducted in different calendar years are exempt from these requirements. (If separate trials by the same person or within 30 km 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.)
Check the options used to differentiate the trials that you are conducting in this study:
Option ✓ Description
A Trial sites must be separated by at least 30 km (18.6 miles) [measured as straight line distance]
B Planting date (for annual crops) or first application date in each trial is separated by at least 30 days
Different crop variety (different size or shape at maturity, rough vs. smooth surface, different amount of foliage shielding the commodity, different rate of growth)—confirm with Study Director if this option will be chosen
Trial IDs of other trials in this study to which these options are being applied:
Enter below any additional information that will improve the understanding of the options that have been chosen:
ABOVE DATA ENTERED BY:DATE:
PART 6 PAGE Trial Year 2021
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FIELD ID NO:	
IR-4 FIELD DATA BOOK	(

M. APPLICATION EQUIPMENT MAINTENANCE AND REPAIR LOG

INSTRUCTIONS: Complete this form or attach true copies of maintenance	ce logs. Provide dates and a brief description of
maintenance and repair work completed on the application equipment rel	levant to this trial. Date and initial all entries.

	FOR APPLI			ERS	
	or Repair (Check o	Was Maintenance or Repair routine? (Check one)			
nitials and Date	Yes	No ¹	SOP#	Description	
I.C	-1-i-4-1	1			
If non-routine, incli	ude in the des	_		of the defect, when discovered, and the action taken. 6 PAGE Trial Year 2021	