FIELD ID NO:	

Total number of pages in this section at initial page  COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY	
PART 6 PA	<del></del>
ABOVE DATA ENTERED BY:	
IF NOT, PLEASE EXPLAIN:	
(For all airblast applications, check "YES" above unless loon the research plot. This prompt is intended to help data r	ocal commercial row widths are used instead of the actual row width reviewers calculate the application rates correctly.)
DOES AREA USED FOR APPLIC. RATE CALCS. = PLO	OT AREA (from Parts 5C and 5D)? YES NO
when the actual row width is wider than local con	f plot sprayed. Treated row width may differ from actual row width mmercial practices. In this circumstance, the application rate should h and an explanation should be included on this page. Contact the
	d list each Disc/Core combination and their location separately.
(e.g. TeeJet Hollow Cone DiscD7 CoreDC25)	die en de Die e/Communities diese en delt ein besetzen en mendete
NOZZLE DISC AND CORE BRAND/TYPE/SIZE	
MESH SIZE USED IN THE STRAINERS	No. OF PASSES NEEDED TO TREAT EACH ROW
NUMBER OF NOZZLES UTILIZED PER SIDE	
TANK CAPACITY (Indicate gallons or liters)  FAN/BLOWER UNIT POWER SOURCE (Check one)  OTHER (Describe)	
OTHER(Describe)	
PROPELLANT (Check one) PTO PUMP	
EQUIPMENT IDENTIFIER <sup>1</sup>	 we unique identifying names or codes
EQUIPMENT USED FOR APPLICATION NUMBER(S	S)
INSTRUCTIONS: Complete a separate form for each piec	e of test substance application equipment used in the trial.
A. EQUIPMENT	

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

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B. DIAGRAM OF APPLICATION EQUIPMENT
-------------------------------------

		PART 6 PAGE	Trial Year 2023	3
ABOVE	DATA ENTERED BY:		DATE:	
5)	Note the side that is open or	r if both sides are being used		
<ul><li>3)</li><li>4)</li></ul>	Application pattern in relati Assign each nozzle a unique			
1) 2)	Relative location and size of Nozzle outlet placement in	relation to crop		
	e the following required items			
		ph or other image of application equipment.	omeni usea in ine iriai.	экенен и
	MENT USED FOR APPLICAT	TION NUMBER(S) e form for each piece of test substance application equi	nmont used in the trial	Skatah a
B. DIA	GRAM OF APPLICATION EQ	QUIPMENT		
B DIA	GRAM OF APPLICATION FO	DUIPMENT		

FIELD ID NO:	

# PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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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. Calculations that do not fit on this page should be inserted on an additional page. If you are conducting a 3-run target check, please use the target check form provided on the IR-4 website. EQUIPMENT IDENTIFIER\_\_\_\_ DISCHARGE CALIBRATION DATE TIME PERFORMED BY (Initials) LOCATION WHERE THE CALIBRATION WAS PERFORMED\_\_\_\_\_ STANDARD DISTANCE USED IN DISCHARGE CALIBRATION PRESSURE (psi) \_\_\_\_\_ DISCHARGE UNITS MEASURED (e.g. ml, gallons) \_\_\_\_\_ METHOD USED TO DETERMINE AMOUNT DISCHARGED (Check one) REFILLED WITH FLOWMETER MEASURED AMOUNT NEEDED TO BACKFILL TANK OTHER (Describe below) \_\_\_\_\_ BRIEFLY DESCRIBE PROCEDURE USED TO CHECK DISCHARGE CALIBRATION \_\_\_\_\_ Is this a Output Run Number 1 2 3 recheck? Initial volume Left side\* Final volume only Yes \_\_\_\_\_ Volume discharged No Initial volume Right side\* Final volume only Volume discharged Initial volume Both sides at Final volume the same time Total Volume discharged Α Sum of outputs per run (ml or gallons) Time (seconds) Avg. Discharge Discharge rate (ml or gal/sec) Rate\*\* \*As seen from the rear of the sprayer \*\*A/B=C YES \_\_\_\_ NO\_\_\_\_ If this is a recheck, are results within 5% of original output? YES\_\_\_\_ NO\_\_\_\_ NA\_\_\_\_ Is the discharge rate of each run within 5% of the mean? ABOVE DATA ENTERED BY: \_\_\_\_\_\_ DATE: \_\_\_\_\_ PART 6 PAGE \_\_\_ Trial Year 2023

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IR-4 FIELD	DATA BOOK

D. SPEED CA	ALIBRATION 1	FOR <b>APPLIC</b> A	ATION NUMBE	ER (S)			
INSTRUCTION application equ	•		for additional tir	nes when a comple	ete calibration	or ca	libration recheck of
EQUIPMENT	IDENTIFIER _						
SPEED CALIE	BRATION DA	ГЕ	TIME	PERFORN	MED BY		(INITIALS)
TERRAIN OF	CALIBRATIC	N TRACK (e.g	., tilled field)				
LOCATION W	WHERE THE C	ALIBRATION	WAS PERFOR	MED			
BRIEFLY DES	SCRIBE PROC	EDURE USED	FOR SPEED C	ALIBRATION			
	DDM		I ENCTH OF T	PECT TO A CIV. ("	1.12.		
							e gear setting and /or RPM
additional runs	s. If this is a re ( <b>one run) is re</b>	check, calculate quired wheneve	e the result is wit e <b>r an output recl</b>	thin 5% of the orig	ginal calibratio	on. Šl	ts have been provided for 2 now all calculations. A capplications within a
RUN#	1	2	3	TOTAL	AVERAC	GE	TARGET OR ORIGINAL CALIBRATION TIME
TIME (sec)							
CALCULATIO	л.						
WAS THIS A	RECHECK OF	SPEED CALI	BRATION?		(Check one)	YES	NO
IF YES, WERE RESULTS WITHIN 5% OF ORIGINAL CALIBRATION? The original calibration data, or a true copy, must be in this field data book.					YES	NO	
				ns, rather than the three runs must be			but for each application a rget speed.
WAS THIS A CHECK OF A TARGET SPEED?				(Check one)		NO	
IF YES, WERE RESULTS WITHIN 5% OF TARGET SPEED?					YES	NO	
ABOVE DATA	ENTERED BY	·				D	ATE:
			PART 6 PAG	E			Γrial Year 2023
COMPLETE IF	APPROPRIATE	: "THIS IS	A TRUE COPY O	F THE ORIGINAL' INITIAL	•		

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IR-4 FIFI D	DATA BOOK

_	DELIMEDA DA EL	CALIDD ATION FOR	A DDI TO A TELONIA NI IMADED	(C)
E.	DELIVERY RATE	L CALIBRATION FOR	APPLICATION NUMBER	((5)

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO INITIALS	DATE
	Trial Year 2023
ABOVE DATA ENTERED BY:	DATE:
Enter "NA" if a spray volume is not applicable.	. F
PROTOCOL SPECIFIED SPRAY VOLUME (from Part 15, in gallons per acre or liters	s per hectare):
CALCULATIONS:	
PROCEDURE/FORMULA:	
INSTRUCTIONS: Complete a separate form for each application, unless the same para same equipment, and have performed a recheck to confirm the result of the full calibrat from the application equipment. Briefly describe the procedure, including formulas use calibration. Show all calculations and units. Equations used in electronic (computer be transcribed or printed out and attached here.	ion. Determine the rate of delivery ed to determine delivery rate

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

F. VOLUME, MIXING AND DILUTION CALCULATIONS FOR APPLICATION NUMBER	<b>S</b> )
--	------------

INSTRUCTIONS: Complete a separate form for each application, unless there are no changes in multiple applications. Show all calculations, 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.

CALCULATIONS ENTERED BY:		DATE:
DESCRIBE HOLDING AND TRANSPO	ORT OF TEST SUBSTANCE FROM STO	DRAGE AREA TO LOCATION OF TANK
, ,	curely in an insulated cooler during transplistance of the chemical storage building")	ort to field site in the bed of a pickup truck
r "Tank mix prepared within walking di	,	
r "Tank mix prepared within walking di	listance of the chemical storage building")	
r "Tank mix prepared within walking di	PART 6 PAGE	DATE:

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	TRT Number		
NUMBER OF DAYS SINCE PREVIOUS APPLICATION	TIME OF ADDITIONAL AGITATION (if applicable)		
TEST SUBSTANCE	e.g. "10:00" or "continuous" or "just pri to application"		
BATCH/LOT NUMBER	00 app110a010		
ΓΙΜΕ MIXED/BY WHOM <sup>1</sup>			
ΓΙΜΕ APPLIED/BY WHOM¹			
EQUIPMENT IDENTIFIER			
TANK MIX AMOUNTS	MEASURING EQUIPMENT with INCREMENTS*		
CARRIER (starting volume of water)			
VOLUME of WATER REMOVED From starting volume (if applicable)			
ΓEST SUBSTANCE (formulated product)			
ADJUVANT			
TOTAL VOLUME OF TANK MIX	*e.g. 1000 mL grad. cylinder/10 mL inc		
APPROXIMATE SPRAY HEIGHT (compared to trees or target height²)	ORDER IN WHICH ITEMS WERE ADDED TO SPRAY MIXTURE* W=Water, TS=Test Substance		
PSI AT NOZZLES	A=Adjuvant *e.g. 1-W, 2-TS, 3-A, 4-W		
CARRIER SOURCE/TYPE			
CARRIER pH/TEMPERATURE			
EQUIPMENT used to MEASURE pH			
he identity of the person that performed this task may be tials are acceptable for identification. xample: Peak spray height was 15 feet into the canopy o	entered by the person entering the rest of the data on this page of a 15- foot tall tree.		
OVE DATA ENTERED BY:	DATE:		

FIELD ID NO:	
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#### PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

H. ADDITIONAL INFORMATION FR	ROM APPLICATION NUMBER		
APPLICATION DATE	(Complete a separate form for each app	olication date)	
PLANT GROWTH & ENVIRONMENT	AL DATA AT THE TIME OF APPLICATION	Enter data in this colur	nn
CROP HEIGHT (Measure or estin	nate crop height, include units of measurements)		
CROP GROWTH STAGE (e.g. see	ed, vegetative, bud, bloom, fruiting, #true leaves)		
	$CROP\ VIGOR\ (e.g.\ poor,\ fair,\ good,\ variable)*$		
PLANT SURFACE N	MOISTURE (Check one) SATURATED	DAMP DRY_	NA
ESTIMATED % OI	F SOIL AREA COVERED BY CROP CANOPY		
MEASURED AIR TEMPERA	TURE (Check F or C) (E.g. $75  ^{\mathrm{O}}\mathrm{F}  \sqrt{}  ^{\mathrm{O}}\mathrm{C}$	o <sub>F</sub>	OC
MEASURED WIND SPEED (Check N	$MPH \ or \ Km/Hr) \ (E.g. \ O.5 \ MPH \ \underline{\ \ \ \ } \ \ Km/Hr \underline{\ \ \ })$	MPH	Km/Hr
WIND DIRECTION FROM (Check one)	N NE E SE S SW	. W NW or N	O WIND
-	ESTIMATED % OF CLOUD COVER		
	MEASURED RELATIVE HUMIDITY%		
DESCRIPTION OF S	SOIL TILTH (smooth, firm, packed, cloddy, etc.)		
ESTIMATE OF SO	IL SURFACE MOISTURE (wet, moist, dry, etc.)		
	SOIL TEMPERATURE (Check F or C)	o <sub>F</sub>	oc
DEPTH OF MEASUREMENT OF	SOIL TEMPERATURE (Check INCHES or cm)	INCHES_	cm
*IF CROP VIGOR IS POOR OR VARIA	ABLE, EXPLAIN:		
ABOVE DATA ENTERED BY:		DATE:	
BRIEFLY DESCRIBE PROCEDURE USE	ED TO CLEAN APPLICATION EQUIPMENT AND	IDENTIFY WHO CLEA	NED IT:
NAME(S) OF PERSON(S) WHO CLEA	NED EQUIPMENT:		

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	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					
BOVE DATA ENTERED ROVIDE A BRIEF NARRA E.g. "Test substance was app ast side. Each pass was app	TIVE SUMMA	ted test plot in two pas			
VERE THERE ANY PROBI FYES, then contact the Study	Director as soo	n as possible.		0	
NARRATIVE ENTERED BY	7			DATE	•

FIELD ID NO:
IR-4 FIELD DATA BOOK
OS-AIRBLAST SPRAYER
MATION FOR APPLICATION NUMB

PART 6. APPLICATION RECORDS-AIRBLAST	Γ SPRAYER
J. POST APPLICATION RATE CONFIRMATION FOR A	PPLICATION NUMBER
APPLICATION DAT	E
	ank Mix = Amount of TS applied to Plot
3) Amount of TS applied to Plot x 43,560 sq ft per acre	
Plot area treated in sq ft  4) Volume of Tank Mix applied to Plot x 1 gallon x 43,560 s  3785 ml Plot area  %DEVIATION FROM THE PROTOCOL RATE SHOULD  ***********************************	q ft per acre = Spray Volume in gallons per acre (GPA) a treated in sq ft BE ROUNDED LIKE THIS: -5% OR THIS: +10%
	DISCHARGE RATE (ml/sec or g/sec):
ACTUAL AREA TREATED (swath width or treated row or	Note: Use bed width for plots with multi-row beds.  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.
WAS ACTUAL SPRAY VOLUME WITHIN THE PROTOC	
(Cneck one) I ES NO NA	IF NO, Contact the Study Director immediately.
ABOVE DATA ENTERED BY:	DATE:

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PART 6. APPLICATION RECORDS APPLICATION NUM		
K. POST TREATMENT RECORDS FOR APPLICATION NUM	IBEK	
APPLICATION DATE	NO.	
Was There Any Visible Phytotoxicity? (Check one) YES If YES, fill in the box below* (or 6P if required by the protocol) are Provide a detailed description and if possible email pictures.  Is a phytotoxicity rating required in the protocol? (Check one) If YES, fill in the box below* (or 6P if required by the protocol).	nd contact the Study Director.	
Date Crop Was Observed:		
*Alternatively, a separate sheet with a description of the phytotoxic	city may be inserted at the bac	ek of Part 6.
DESCRIPTION OF PHYTOTOXICITY SYMPTOMS:		
РНҮТОТОХІС	ITY DESCRIBED BY:	(Initials/date)
DATE STUDY DIRECTOR WAS CONTACTED:	CONTACTED BY:	(Initials/date)
Enter the requested information below for <u>both</u> the first rainfall and subsequent applications were made prior to the first rainfall or irrig transcribed from the data included in Part 9 <u>unless otherwise indica</u>	ation. The rainfall/irrigation ated on this page. If irrigation	data entered below should be n is required by the protocol
to incorporate the test substance, or if the test substance is app below. "NONE BEFORE HARVEST" or "NONE BEFORE S.		
DATE OF FIRST RAIN AF	-	
TIME AFTER APPLICATION THAT PLOTS WERE EXPOS (Check DAYS or HOURS) (Enter #hours if first rainfall was		DAYS HOURS
	AMOUNT OF WATER (Check INCHES or mm)	INCHES
	(Check IIVCIIES of Hull)	mm
RAIN INFORMATION RECORDED BY (Initials/date)		
TYPE OF IRRIGATION (e.g. overhead, trickle, flood)		
DATE OF FIRST IRRIGATION AF	TER THIS APPLICATION	
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSEI	TO FIRST IRRIGATION	DAYS
(Check DAYS or HOURS) (Enter #hours if first irrigation was	on the date of application.)	HOURS
	AMOUNT OF WATER	INCHES
((	Check INCHES, mm, or mL)	mm
		mL
IRRIGATION INFORMATION RECORDED BY(Initials/date)		
If the data entered above differ from the rainfall/irrigation data incl	uded in Part 9, explain:	
	Initials/date:	
PART 6 PA	AGE	Trial Year 2023
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF TH	E ORIGINAL" INITIALSDATE	<u>.                                    </u>

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PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER
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 pag
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 $\underline{3}$ 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. Variet A has heavy foliage that shields the commodity, whereas Variety B has light foliage that exposes the commodit 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
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)—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 chose
ABOVE DATA ENTERED BY:DATE:

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	PART 6 PA	AGE		
COMPLETE IF APPROPRIATE:	"THIS IS A TRUE COPY O	F THE ORIGINAL"		
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## M. APPLICATION EQUIPMENT MAINTENANCE AND REPAIR LOG

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

APPLICATION EQUIPMENT IDENTIFIER							
EQUIPMENT USED FOR APPLICATION NUMBERS							
INITIALS/DATE							
	Was Mai or Repair (Check or	routine?					
Initials and Date	Yes	No <sup>1</sup>	SOP#	Description			
	1						
	1						
	1						
<sup>1</sup> If non-routine, include	le in the de	scription t	he nature	e of the defect, when discovered, and the action taken.			
PART 6 PAGE Trial Year 2023							
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"  THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO INITIALS DATE							