FIELD ID NO:	

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER 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 ¹All test substance application equipment must have unique identifying names or codes PTO PUMP_____ HYDRAULIC PUMP_____ PROPELLANT (Check one) OTHER _ (Describe) _____ TANK CAPACITY (Indicate gallons or liters) FAN/BLOWER UNIT POWER SOURCE (Check one) PTO_____ HYDRAULIC___ OTHER (Describe) NUMBER OF NOZZLES UTILIZED PER SIDE No. OF PASSES NEEDED TO TREAT EACH ROW MESH SIZE USED IN THE STRAINERS NOZZLE DISC AND CORE BRAND/TYPE/SIZE (e.g. TeeJet Hollow Cone DiscD7 CoreDC25) If different size nozzles were used along the spray manifold list each Disc/Core combination and their location separately. TREATED AREA² ²Treated area=row width X # of rows X length of plot sprayed. Treated row width may differ from actual row width when the actual row width is wider 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. Contact the Study Director if guidance is needed. DOES AREA USED FOR APPLIC. RATE CALCS. = PLOT AREA (from Parts 5C and 5D)? YES NO (For all airblast applications, check "YES" above unless local commercial row widths are used instead of the actual row width on the research plot. This prompt is intended to help data reviewers calculate the application rates correctly.) IF NOT, PLEASE EXPLAIN: ______DATE: _____ ABOVE DATA ENTERED BY: PART 6 PAGE Trial Year 2021 Total number of pages in this section at initial pagination:

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ABOVE	DATA ENTERED BY:		DATE:	
3)	Trote the side that is open	of it both states are being used		
4) 5)	Assign each nozzle a unio			
2) 3)	Nozzle outlet placement i Application pattern in rela	in relation to crop		
Include 1)	e the following required ite Relative location and size	ems in the sketch or image:		
		ate form for each piece of test substance appli graph or other image of application equipment		Sketch
	MENT USED FOR APPLIC			
B. DIA	GRAM OF APPLICATION	EQUIPMENT		

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PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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 +/-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 condu	cting a 3-run target chec	k, please use t	the target ch	eck form pro	vided on the IR-4 we	ebsite.
EQUIPMENT IDE	NTIFIER					
	LIBRATION DATE					(Initials)
LOCATION WHE	RE THE CALIBRATION	WAS PERFOR	MED			
STANDARD DIST	TANCE USED IN DISCHA	RGE CALIBR	ATION			
PRESSURE (psi)		DISCHAR	GE UNITS M	IEASURED (e	.g. ml, gallons)	
METHOD USED 7	ΓΟ DETERMINE AMOUN	T DISCHARG	ED (Check on	e) REFILLE	ED WITH FLOWMET	ER
MEASUR	ED AMOUNT NEEDED	TO BACKFILL	TANK	OTHER (Describe below)	
BRIEFLY DESCR	RIBE PROCEDURE USED	TO CHECK D	ISCHARGE C	CALIBRATIO	N	
		_		<u> </u>		
	Output Run Number	1	2	3	Is this a	
Left side*	Initial volume				recheck?	
only	Final volume				Yes	
	Volume discharged				No	
Right side*	Initial volume					
only	Final volume					
	Volume discharged					
D (1 :1)	Initial volume					
Both sides at the same time	Final volume					
	Volume discharged				Total	
Sum of outputs	per run (ml or gallons)				A	
	Time (seconds)				В	
Discha	arge rate (ml or gal/sec)				Avg. Discharge Rate**	С
	*As seen from the rear of the	ne sprayer				**A/B=C
If this is a rechect	k, are results within 5% of	of original outp	out? YES	S N	0	
Is the discharge ra	ate of each run within 5%	of the mean?	YES	S NO	_ NA	
ABOVE DATA E	NTERED BY:				DATE:	
	P	ART 6 PAGI	R			Year 2021
COMPLETE IF APP	ROPRIATE: "THIS IS A IN IR-4 FIELD DATA BOOK	TRUE COPY O		AL"	DATE	

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D. SPEED CA	ALIBRATION	FOR APPLIC	ATION NUMBI	ER (S)		
	NS: Complete a uipment is requ		for additional ti	mes when a comp	lete calibration or co	alibration recheck of
EQUIPMENT	IDENTIFIER					
SPEED CALI	BRATION DA	TE	TIME	PERFOR	MED BY	(INITIALS)
LOCATION V	WHERE THE C	CALIBRATION	WAS PERFOR	MED		
BRIEFLY DE	SCRIBE PROC	CEDURE USED	FOR SPEED C	CALIBRATION _		
GEAR	RPM		LENGTH OF T	TEST TRACK (in	clude units)	
setting used in was tested to a additional run speed recheck	the speed calib letermine speed s. If this is a re	oration. Indicat (e.g. speed of c check, calculat quired whenev	te the distance (in application equip e the result is wi er an output rec	n feet or meters) o oment tested for 1 thin 5% of the ori	of the track on which 00 ft.). Entry promp iginal calibration. Si	ne gear setting and /or RPM the application equipment ts have been provided for 2 how all calculations. A e applications within a
RUN#	1	2	3	TOTAL	AVERAGE	TARGET OR ORIGINAL CALIBRATION TIME
TIME (sec)						
CALCULATI	ONS:	<u> </u>	I	l	l	<u> </u>
WAS THIS A	RECHECK OF	F SPEED CALI	BRATION?			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
					e mean of three runs, be within 5% of the t	but for each application a arget speed.
WAS THIS A	CHECK OF A	TARGET SPE	ED?		(Check one) YES	NO
IF YES, WER	E RESULTS W	/ITHIN 5% OF	TARGET SPEE	ED?		NO
ABOVE DATA	A ENTERED BY	:			D	ATE:
			PART 6 PAG	E	,	Гrial Year 2021
	APPROPRIATE	: "THIS IS		F THE ORIGINAL INITIAL		E

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E.	DELIVERY RATE	CALIBRATION FOR	APPLICATION NUMBER(S)	

	INTOKAITEICATION NUMBER(G)	
same equipment, and have performed from the application equipment. Brief	a recheck to confirm the result of the full of by describe the procedure, including form d units. Equations used in electronic (co	me parameters are used you are using the calibration. Determine the rate of delivery ulas used to determine delivery rate mputer software) calculations in this trial mus
PROCEDURE/FORMULA:		
CALCULATIONS:		
PROTOCOL SPECIFIED SPRAY VC Enter "NA" if a spray volume is not a	DLUME (from Part 15, in gallons per acre	or liters per hectare):
,,,,,,,, .	,	
ABOVE DATA ENTERED BY:		DATE:
	PART 6 PAGE	Trial Year 2021
COMPLETE IF APPROPRIATE: "T		
THE ORIGINAL IS IN IR-4 FIELD DATA		

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F. VOLUME, MIXING AND DILUTION CALCULATIONS FOR AF	PPLICATION NUMBER(S)
INSTRUCTIONS: Complete a separate form for each application, unles all calculations, formulas, and results below, and define units of measur calculations in this trial must be transcribed or printed out and attached	re. Equations used in electronic (computer software)
CALCULATIONS ENTERED BY:	DATE:
DESCRIBE HOLDING AND TRANSPORT OF TEST SUBSTANCE MIXING (E.g.: "Test substance held securely in an insulated cooler du or "Tank mix prepared within walking distance of the chemical storage	ring transport to field site in the bed of a pickup truck"
NARRATIVE ENTERED BY:	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			
TIME MIXED/BY WHOM ¹			
TIME APPLIED/BY WHOM ¹			
EQUIPMENT IDENTIFIER			
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 ind		
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			
The identity of the person that performed this task may be itials are acceptable for identification. Example: Peak spray height was 15 feet into the canopy	entered by the person entering the rest of the data on this pagf a 15- foot tall tree.		
BOVE DATA ENTERED BY:	DATE:		

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

H. ADDITIONAL INFORMATION FROM	APPLICA	ATION N	UMBE	R	-			
APPLICATION DATE	(Com	iplete a se	parate f	orm for	each app	olication dat	e)	
PLANT GROWTH & ENVIRONMENTAL I	DATA AT	THE TIM	1E OF A	PPLICA	ATION	Enter data	in this colu	mn
CROP HEIGHT (Measure or estimate of	crop heigh	t, include	units of	measur	ements)			
CROP GROWTH STAGE (e.g. seed, ve	getative, b	pud, bloon	ı, fruitin	g, #true	leaves)			
CRO	P VIGOR	(e.g. poo	r, fair, g	ood, var	riable)*			
PLANT SURFACE MOIS	TURE (C	heck one)	SA	TURAT	TED	DAMP_	_ DRY_	NA
ESTIMATED % OF SOI	L AREA (COVERE	D BY CI	ROP CA	NOPY			
MEASURED AIR TEMPERATUR	E (Check I	F or C) (E	i.g. 75	oF <u>√</u>	OC)		o _F	_ oC
MEASURED WIND SPEED (Check MPH o	or Km/Hr)	(E.g. 0.5	MPH_	<u>√</u> Km/	Hr)		MPH	Km/Hr
WIND DIRECTION FROM (Check one) N_	NE	_ E	SE	S	SW	_ W 1	NW or]	NO WIND
•	ESTI	MATED 9	% OF CI	OUD (COVER			
	MEASU	RED REI	LATIVE	HUMII	OITY%			
DESCRIPTION OF SOIL TILTH (smooth, firm, packed, cloddy, etc.)								
ESTIMATE OF SOIL SU	RFACE M	10ISTUR	E (wet, 1	noist, d	ry, etc.)			
	SOIL 7	ΓEMPER	ATURE	(Check	F or C)		o _F	oC
DEPTH OF MEASUREMENT OF SOII	L TEMPEI	RATURE	(Check	INCHES	S or cm)		INCHES_	cm
*IF CROP VIGOR IS POOR OR VARIABLE	E, EXPLA	IN:						
ABOVE DATA ENTERED BY:						DATE	E:	
BRIEFLY DESCRIBE PROCEDURE USED TO	CLEAN .	APPLICA	TION E	QUIPME	ENT ANI	D IDENTIFY	WHO CLE	EANED IT:
NAME(S) OF PERSON(S) WHO CLEANED	EQUIPM	IENT:						
CLEANING DESCRIPTION ENTERED BY: _						DATE	E:	

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PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

I. PASS TIMES FOR API RECORD PASS TIME AN the application equipment	ND PASS DIRECT	ION - Complete the to		e required to m	ake each pass of
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					
ABOVE DATA ENTERE PROVIDE A BRIEF NAR (E.g. "Test substance was east side. Each pass was a	RATIVE SUMMA applied to the treat	ted test plot in two pas			ORMED IT:
WERE THERE ANY PRO If YES, then contact the Stu APPLICATION WAS MA	udy Director as soo	n as possible.		0	
NARRATIVE ENTERED	RV			DATF	

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J. POST APPLICATION RATE CONFIRMATION FOR A	PPLICATION NUMBER
APPLICATION DAT	E
Total Volume of Tank ivity applied to Flot A Amnount of To in Total	
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 sq 3785 ml Plot area %DEVIATION FROM THE PROTOCOL RATE SHOULD ************************************	<u>q ft per acre</u> = Spray Volume in gallons per acre (GPA) treated in sq ft
	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 + (Check one) YES NO WAS ACTUAL SPRAY VOLUME WITHIN THE PROTOC (Check one) YES NO NA	IF NO, Contact the Study Director immediately.
ABOVE DATA ENTERED BY:	DATE:

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K. POST TREATMENT RECORDS FOR APPLICATION NUM	MBER	
APPLICATION DATE		
	NO	1.0
If YES, fill in the box below* and contact the Study Director. Prov	-	-
Is a phytotoxicity rating required in the protocol? YES	NO If YES, fill in the	box below*
Date Crop Was Observed:		1.00
*Alternatively, a separate sheet with a description of the phytotoxi	icity may be inserted at the ba	ack of Part 6.
DESCRIPTION OF PHYTOTOXICITY SYMPTOMS:		
PHYTOTOXIC	CITY 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 an subsequent applications were made prior to the first rainfall or irrig		
transcribed from the data included in Part 9 <u>unless otherwise indic</u>	e e	
to incorporate the test substance, or if the test substance is app	olied by irrigation, then that	t event should be recorded
below. "NONE BEFORE HARVEST" or "NONE BEFORE S	-	d, if applicable.
DATE OF FIRST RAIN AF	TER THIS APPLICATION	
TIME AFTER APPLICATION THAT PLOTS WERE EXPOS		DAYS
(Check DAYS or HOURS) (Enter #hours if first rainfall was	on the date of application.)	HOURS
	AMOUNT OF WATER	INCHES
	(Check INCHES or mm)	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	O TO FIRST IRRIGATION	DAYS
(Check DAYS or HOURS) (Enter #hours if first irrigation was		HOURS
		INCHES
((AMOUNT OF WATER Check INCHES, mm, or mL)	mm
	meck invertes, mm, or me)	mL
IRRIGATION INFORMATION RECORDED BY(Initials/date)		<u> </u>
If the data entered above differ from the rainfall/irrigation data inc	luded in Part 9 explain:	
22 222 2222 Chiefe a control from the fullitativitigation data life		
	Initials/date	
D. D.T. C. D.	Initials/date:	T ' 137 0001
PART 6 PA		Trial Year 2021
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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 $\underline{3}$ 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. 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:
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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.

				copies of maintenance logs. Provide dates and a brie lication equipment relevant to this trial. Date and init	
APPLICATION EQU	IPMENT I	DENTIFII	ER		
EQUIPMENT USED	FOR APPI	LICATIO	N NUMI	BERS	
INITIALS/DATE					
Title ID.	or Repair ro (Check one)		Was Maintenance or Repair routine? (Check one)		
Initials and Date	Yes	No ¹	SOP#	Description	
If non-routing inch.	de in the de	ecription	the notice	e of the defect, when discovered, and the action taken.	
11 non-rounne, metu	ue in the de	scription		PART 6 PAGE	Trial Year 2021
COMPLETE IE APPRO	PRIATE:	I ZIHT"	S A TRIII	COPY OF THE ORIGINAL"	

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