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

PROPELLANT (Check one) PTO PUMP		HYDRAULIC PUMP		
OTHER(Describe)				
TANK CAPACITY (Indicate gallons or liters)				
FAN/BLOWER UNIT POWER SOURCE (Check or	ne)	PTO HYDRAULIC		
OTHER(Describe)				
NUMBER OF NOZZLES UTILIZED PER SIDE				
MESH SIZE USED IN THE STRAINERS		No. OF PASSES NEEDED TO TREAT EACH ROW		
NOZZLE DISC AND CORE BRAND/TYPE/SIZE (e.g. TeeJet Hollow Cone DiscD7 CoreDC25)				
If different size nozzles were used along the spray mathematical second se	anifold lis	t 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 TREATED AREA (for application rate calculations) = PLOT AREA (from Parts 5C and 5F)? 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:		
ABOVE DATA ENTERED BY:		<i>DATE:</i>
PART 6 PAGE		Trial Year 2019
Total number of pages in this section at initial pagination: _		
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORI		
THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO I	NITIALS	_DATE

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS - AIRBLAST SPRAYER

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 outlet placement and application pattern in relation to crop, in the sketch or photograph. In addition, on the sketch or photograph assign each nozzle a unique number. Note the side that is open or if both sides are being used.

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE

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THE ORIGINAL IS IN IR-4 FIELD D	ATA BOOK NO	INITIALS	DATE

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				140.	۰.

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

C. DISCHARGE CALIBRATION FOR APPLICATION NUMBER

INSTRUCTIONS: Complete a separate form for additional times when a complete calibration or calibration-recheck of application equipment is required.

EQUIPMENT IDENTIFIER_____

DISCHARGE CALIBRATION DATE______ PERFORMED BY_____(Initials)

PRESSURE OR OTHER STANDARD SETTING UTILIZED IN CALIBRATION

APPROXIMATE TIME OF DAY THAT THE CALIBRATION WAS PERFORMED

LOCATION WHERE THE CALIBRATION WAS PERFORMED

STANDARD DISTANCE USED IN DISCHARGE CALIBRATION_____

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

The table for entering output results is now on 6.C.2 (next page).

CALIBRATION CALCULATIONS:

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE	Trial Year 2019

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PART 6. APPLICATION RECORDS

C.2. 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.

DISCHARGE CALIBRATION Record time applicator is allowed to discharge. Record this value in "RUN" Row 1 next to the appropriate side. Calculate the total and average discharge AND whether the recheck is within 5% (if applicable). Entry prompts have been provided for 3 discharge calibration runs. Enter all calculations on 6.C.1.

Output Run Number		1	2	3	Total	Average
Pressure (psi)					(Required)	(Optional)
Units (e	e.g. ml, liters, gallons)					
	Time (seconds)					
I. C. 1.4	Initial volume					
Left side* only	Final volume					
Olly	Volume discharged					
Dicht side*	Initial volume					
Right side* only	Final volume					
Olly	Volume discharged					
Both sides	Initial volume					
at the same	Final volume					
time	Volume discharged					
Sum of outputs per run (ml or gallons)						
Total dischar	ge rate (ml or gal/sec)					
*As seen from th	e rear of the sprayer					-
Was this a rechec	ck of discharge calibratio	n or a 3-run ta	arget check? (C	Check one)	YESN	IO
If yes, were resul	ts within 5% of original	calibration or	target output?		YESN	IO
boom discharge r	narge calibration run or a rate (bottom row in colum	nns 1, 2, and 3	3) within 5% of			
An output consisting of an average of three runs <u>or</u> a target output may be used when calculating the sprayer output and amount of test substance to use. If this is a I-discharge recheck, 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 EN	NTERED BY:				DATE:	
PART 6 PAGE Trial Year 2019						2019

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FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

D. SPEED CALIBRATION FOR APPLICATION NUMBER (S) _____

INSTRUCTIONS: Complete a separate form for additional times when a complete calibration or calibration recheck of application equipment is required.

EQUIPMENT IDENTIFIER

SPEED CALIBRATION DATE PERFORMED BY (INITIALS)

TERRAIN OF CALIBRATION TRACK (e.g., tilled field)

LOCATION WHERE THE CALIBRATION WAS PERFORMED_____

BRIEFLY DESCRIBE PROCEDURE USED FOR SPEED CALIBRATION _____

SPEED CALIBRATION: Calculate the speed of the application equipment. If appropriate, note the gear setting and /or RPM setting used in the speed calibration. Indicate the distance (in feet) of the track on which the application equipment was tested to determine speed (e.g. speed of application equipment tested for 100 ft.). The speed is calculated by dividing the length of test track (in feet) by the time needed to cover that length (in seconds). Entry prompts have been provided for 2 additional runs. If this is a recheck, calculate the result is within 5% of the original calibration. Show all calculations. A speed recheck (one run) is required whenever an output recheck is performed, except for multiple applications within a study that are made on the same day on the same farm.

RUN	GEAR	RPM	Length of test track (include units)	TIME (sec)	CALCULATED SPEED (include units)
1					
2					
3					
Total of test run times (sec)		Average time (sec)		Average speed	

CALCULATIONS:

al Year 2019		
<i>DATE:</i>		
NO NO		
for each application a t speed.		
NO		
NO		

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IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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:

CALCULATIONS:

ABOVE DATA ENTERED BY:			DATE:	
	PART 6 PAGE		Trial Year 2019	
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IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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. Show all calculations, formulas, and results below, define units of measure, and cite the initials of the person performing the calculations. 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.

DESCRIBE HOLDING AND TRANSPORT OF TEST SUBSTANCE FROM STORAGE AREA TO LOCATION OF TANK MIXING (E.g.: "Test substance held securely in an insulated cooler during transport to field site in the bed of a pickup truck" or "Tank mix prepared within walking distance of the chemical storage building")

ABOVE DATA ENTERED BY: _		DATE:
	PART 6 PAGE	Trial Year 2019
	"THIS IS A TRUE COPY OF THE ORIGIN DATA BOOK NO INITI	

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

G. APPLICATION INFORMATION FOR APPLICATION NUMBER _____ APPLICATION DATE ____

 HAS THE APPLICATION EQUIPMENT BEEN USED SINCE THE LAST
 (Check one)
 YES______
 NO______

 CALIBRATION/RECHECK WAS PERFORMED?
 (If you are about to check YES, then a recheck is usually required.)
 NO_______

INSTRUCTIONS: Complete a separate form for each application date and for each treatment on one application date (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 this section is being used for spray-gun applications; <u>additional agitation is not applicable for large volume airblast</u> applications; 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 adjuvant 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; 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 TEST SUBSTANCE	TIME OF ADDITIONAL AGITATION (if applicable) e.g. "10:00" or "continuous" or "just prior				
BATCH/LOT NUMBER/Container#1	to application"				
TIME MIXED/INITIALS					
TIME APPLIED/INITIALS					
EQUIPMENT IDENTIFIER					
PLACEMENT OF TEST SUBSTANCE					
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 incr.				
APPROXIMATE SPRAY HEIGHT (compared to trees or target height ²)	ORDER IN WHICH ITEMS WERE ADDED TO SPRAY MIXTURE* W=Water, TS=Test Substance, A=Adjuvant				
PSI AT NOZZLES	*e.g. 1-W, 2-TS, 3-A, 4-W				
CARRIER SOURCE/TYPE					
CARRIER pH/TEMPERATURE					
EQUIPMENT used to MEASURE pH					

¹ If more than one test substance container was received for this trial. If not, only batch or lot number is needed.

² Example: Peak spray height was15 feet into the canopy of a 15- foot tall tree.

ABOVE DATA ENTERED BY: _____

PART 6 PAGE ____

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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 (Measure or estimate crop height, include units of measurements)	
CROP GROWTH STAGE (e.g. seed, vegetative, bud, bloom, fruiting, #true leaves)	
CROP VIGOR (e.g. poor, fair, good, variable)*	
PLANT SURFACE MOISTURE (Check one) SATURATED	DAMP DRY NA
ESTIMATED % OF SOIL AREA COVERED BY CROP CANOPY	
MEASURED AIR TEMPERATURE (<i>Check F or C</i>) (<i>E.g.</i> 75 $^{\text{O}}\text{F}_{\checkmark}$ $^{\text{O}}\text{C}_{_}$)	⁰ F ⁰ C
MEASURED WIND SPEED (<i>Check MPH or Km/Hr</i>) (<i>E.g.</i> 0.5 MPH $$ Km/Hr)	MPH Km/Hr
WIND DIRECTION FROM (Check one) N NE E SE SW	W NW or NO WIND
ESTIMATED % OF CLOUDS IN THE SKY	
MEASURED RELATIVE HUMIDITY%	
DEW (heavy, light, none, etc.)	
DESCRIPTION OF SOIL TILTH (smooth, firm, packed, cloddy, etc.)	
ESTIMATE OF SOIL SURFACE MOISTURE (wet, moist, dry, etc.)	
SOIL TEMPERATURE (Check F or C)	^o F ^o C
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check INCHES or cm)	INCHES cm

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

ABOVE DATA ENTERED BY: _____

_____ DATE: _____

BRIEFLY DESCRIBE PROCEDURE USED TO CLEAN APPLICATION EQUIPMENT AND IDENTIFY WHO CLEANED IT:

CLEANED BY: _____

CLEANING DESCRIPTION ENTERED BY: DAT	'E:
--------------------------------------	-----

Trial Year 2019

PART 6 PAGE _____

FIELD ID NO: **IR-4 FIELD DATA BOOK**

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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).

	TREATM	IENT	Т	REATMENT	
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 ENTERED BY: _____ DATE: _____

PROVIDE A BRIEF NARRATIVE SUMMARY OF THE APPLICATION AND IDENTIFY WHO PERFORMED IT:

(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 canopy of the trees.")

APPLICATION WAS MADE BY: _____

NARRATIVE ENTERED BY______ *DATE:* ______

PART 6 PAGE ____

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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

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

CALCULATION OF ACTUAL APPLICATION RATE AND SPRAY VOLUME - 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. If a target rate was used for the pre-application calculations, the data from the 3-discharge recheck (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 <u>Amount of TS in Tank Mix</u> = Amount of TS applied to Plot Total Volume of Tank Mix

3) Amount of TS applied to Plot x 43,560 sq ft per acre = Amount of TS applied per acre Plot area treated in sq ft

4) Volume of Tank Mix applied to Plot x $\underline{1 \text{ gallon}}$ x $\underline{43,560 \text{ sq ft per acre}} = \text{Spray Volume in gallons per acre (GPA)}$ 3785 ml Plot area treated in sq ft

% DEVIATION FROM THE PROTOCOL RATE SHOULD BE ROUNDED LIKE THIS: -5% OR THIS: +8%, *NOT* LIKE THIS: -5.4% *OR* THIS: +8.29% OR THIS: +3.141592653589793238462643383279502884197169399% *****

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, C	ontac	ct the	e Stuc	ly I	Directo	r imm	edia f	tely.
WAS ACTUAL SPRA	AY VOLUME W	VITHIN THE PROTOC	OL RANC	GE?							
			0		4.43	CL.	. т	.	•		

(Check one) YES____ NO____ NA____ IF NO, Contact the Study Director immediately.

ABOVE DATA ENTERED BY: _____ DATE: _____

PART 6 PAGE

FIELD ID NO:

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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

Date Crop Was Observed: _____ Initials/date: _____

If YES, then contact the Study Director, fill in the box below*, and if a digital camera is available, email digital photograph(s) to the Study Director along with a detailed explanation of the damage. If NO, then line out the entire box with initials and date, unless the protocol requires a phytotoxicity rating. If so, fill in the box below*.

*Alternatively, a separate sheet with a description of the phytotoxicity may be inserted at the back of Part 6.

DESCRIPTION OF PHYTOXICITY SYMPTOMS:

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.)					
DAYS HOURS		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> .)				
INCHES mm	AMOUNT OF WATER (Check INCHES or 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.)					
DAYS HOURS	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> .)					
INCHES mm mL	AMOUNT OF WATER Check INCHES, mm, or 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 201 COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN FIELD DATA BOOK NO. _____ INITIALS _____ DATE___

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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 <u>OR</u> two options from Set 2.

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. 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:

COMPLETE IF APPROPRIATE: "THIS	PART 6 PAGE IS A TRUE COPY OF THE ORIGINAL" DOK NO INITIALS	Trial Year 2019
ABOVE DATA ENTERED BY:		DATE:
Additional information:		

IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

L.2. DIFFERENTIATION OF MULTIPLE TRIALS (IF YOU CHECKED "YES" ON THE PREVIOUS PAGE) Some options included in this table may <u>not</u> be acceptable for use in this study. Refer to Protocol Section 11.4 for the study-specific list of options.

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

Set	Option		Description
	A		Trial sites must be separated by at least 20 miles (32 km) [measured as straight line distance]
	В		First application or planting date (for annual crops) in each trial is separated by at least 30 days
1	С		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
			Spray volume must vary by at least 25% of the lower volume (minimum 10 GPA difference)
	٨		Example 1, Trial A has a volume of 20 GPA and Trial B has a volume \geq 30 GPA
	А		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
			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
	В		another trial
			Different foliar application type: foliar directed or foliar broadcast
	С		(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)
			Different types of application equipment be used in each trial (for example, tractor-pulled boom sprayer,
	Е		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)
			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
	F		Document in the Field Data Book the droplet size that results from the pressure and nozzles used in the
2			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
			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
	I		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
	К		Different planting arrangement for annual crops:
	ĸ		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
	М		Different training system for fruit trees (for example, central leader or open center)
			Different maturity of trees or bushes in fruit and nut studies—young trees or bushes in one trial and
	Ν		mature trees or bushes in the other (minimum 5 year age difference); all trees/bushes must be
			commercially productive
	0		Different soil series, type, or texture (only in trials in which applications are made to the soil)
	Р		Different formulations of the test substance (within the types generally considered equivalent)

ABOVE DATA ENTERED BY: _____

PART 6 PAGE _____

_____ DATE: _____

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IR-4 FIELD DATA BOOK

PART 6. APPLICATION RECORDS-AIRBLAST SPRAYER

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 MAINTENANCE AND REPAIR WORK DONE ON THE APPLICATION EQUIPMENT, OR ATTACH TRUE COPIES OF THE LOGS. <u>ALSO RECORD SOP# FOLLOWED, IF APPLICABLE.</u>

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

PART 6 PAGE _____

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THE ORIGINAL IS IN IR-4 FIELD D	ATA BOOK NO	INITIALS	DATE	_