FIELD ID NO:	
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A. EQUIPMENT					
INSTRUCTIONS: Complete a separate form for each piece of te	st substance application equipment use	ed in the trial.			
EQUIPMENT USED FOR APPLICATION NUMBER(S)	<del></del>				
EQUIPMENT IDENTIFIER¹	unique identifying name or code				
APPLICATION EQUIPMENT TYPE (Check one) TRACTOR OTHER(Describe)		GRANULAR			
PROPELLANT (Check one) CO <sub>2</sub> COMPRES					
OTHER (Describe)					
TYPE OF APPLICATION (Check one) FOLIAR BROADC SOIL BROADCAST SOIL BANDED IN-FURROW (SEED ROW) IN-FURROW OTHER (Describe) NUMBER OF PASSES THAT ARE NEEDED TO TREAT THE	SOIL DIRECTED OW (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 <sup>2</sup>					
<sup>2</sup> Calculated width of nozzle discharge pattern (CWNDP) For a broadcast application, CWNDP = (# of nozzles X nozzles X swath per nozzle. If application is foliar direct plot sprayed or treated; treated row width may differ from narrower than local commercial practices. In this circulated commercial commercial row width, and an explanation should Contact the Study Director if guidance is needed.	nozzle spacing). For a banded applicated or soil directed enter row width X #om actual row width when the actual romnstance, the application rate should be	ation, CWNDP = # of t of rows X length of ow width is wider or e calculated using a			
DOES AREA USED FOR APPLICATION RATE CALCS. = PL	OT AREA (from Parts 5C/5D)? YES	SNO			
(For foliar directed and soil directed applications, check "YES" a the actual row width on the research plot. This prompt is intende IF NO, PLEASE EXPLAIN:	d to help data reviewers calculate the a				
ABOVE DATA ENTERED BY:					
PART 6 PAGE _		ll Year 2022			
Total number of pages in this section at initial paginati					
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J	L	$\overline{}$	VT.	<b>\</b> .	ı	ι,	. /	ъ.					$\boldsymbol{\Box}$			,,,,	1	١L	٠.	_,	.,	1		∕.	. 1

B. DIAGRAM OF APPLICATION EQUIPMENT	
EQUIPMENT USED FOR APPLICATION NUMBER(S) _	
INSTRUCTIONS: Complete a separate form for <b>each piece</b> of diagram and/or provide clear photograph or other image of a	of test substance application equipment used in the trial. Sketch a application equipment.
Include the following required items in the sketch or ima  1) Relative location and size of the target crop  2) Nozzle or hopper outlet placement in relation to  3) Application pattern in relation to crop  4) Assign each nozzle or hopper outlet a unique nu	crop
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# IR-4 FIELD DATA BOOK

PART 6. APPLICATI	<u>ON R</u>	<u>ECORDS</u>					
C. DISCHARGE CALIBRA	ATION	FOR APPLIC	ATION NUMBER _				
INSTRUCTIONS: Use the please provide calculation						•	0
If you are conducting a .	3-run	target check, <sub>I</sub>	please use the 3-run	target ch	eck forn	n provided	on the IR-4 website.
EQUIPMENT IDENTIFIE	R						
DISCHARGE CALIBRAT							(INITIALS
LOCATION WHERE THE	CALI	BRATION WA	S PERFORMED				
INSTRUMENT USED TO	MEAS	URE WATER	(e.g. 100 ml graduated	d cylinder)_			
BRIEFLY DESCRIBE PRO	OCEDI	JRE USED TO	CHECK DISCHARG	E CALIBR	ATION_		
PRESSURE (psi)			UNITS	(e.g. ml, g	rams) _		
Output Run Num	iber	1	2	3			
Nozzle/Hopper	1					Is thi	s a recheck?
Outlet Number	2						
Along Boom (If more than 6 nozzles,	3						es
use the alternate form	4					N	lo
Part-6C. Large Boom	5						
provided on the website.)	6					Total	
Total Boom Vol					A		
Mean per nozzle or o					В		
-					C		
Time (seco	ilus)					verage	
Discharge	Rate				D	ischarge Ra	te* D
Indicate whether discharge rate	e is calc	ulated for: Total !	Boom Volume Me	an Nozzle V	olume	>	k(A or B)/C=D
C							
Is the discharge rate of ea	ach rur	n within 5% of	the mean?		YES	NO	NA
Are individual nozzle out	tputs v	run?	YES	NO	NA		
If this is a recheck, are re	sults v				NA		
ABOVE DATA ENTERED			-				
			RT 6 PAGE				l Year 2022
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D. SPEED CAI	LIBRATION F	OR <b>APPLICA</b>	TION NUMBE	R(S)			
INSTRUCTION application equi			or additional tin	nes when a comple	te calibration	or cali	bration- recheck of
EQUIPMENT I	DENTIFIER _						. <u> </u>
SPEED CALIB	RATION DAT	Е	TIME	PERFORM	IED BY		(INITIALS)
TERRAIN OF C	CALIBRATION	N TRACK (e.g.	. tilled field)				
LOCATION W	HERE THE CA	LIBRATION	WAS PERFORM	MED			
BRIEFLY DESC	CRIBE PROCE	EDURE USED	FOR SPEED CA	ALIBRATION			
GEAR	RPM		LENGTH OF TI	EST TRACK (incl	ude units)		
							gear setting and /or RPM
							gear setting and for K1 W1 ne application equipment
was tested to de	termine speed (	e.g. speed of ap	pplication equip	ment tested for 100	0 ft.). Entry p	rompts	have been provided for 2
							w all calculations. <b>A speed</b> utions within a study that
are made on the				регјогтеа, ехсер	ı jor munipte	аррисс	iiions wiinin a siaay inai
							TARGET OR
RUN #	1	2	3	TOTAL	AVERA	GE	ORIGINAL CALIBRATION TIME
TIME (sec)							CALIBRATION TIME
CALCULATIO	NIC.						
CALCULATIO	IND.						
WAS THIS A R	ECHECK OF	SPEED CALIE	RRATION?		(Check one)	YES	NO
IF YES, WERE				LIBRATION?	(encentarie)		NO
The original cal							
							ut for each application a
full speed calibr				three runs must be			
IF YES, WERE				D2	(Cneck one)		NO NO
ABOVE DATA I	ENTERED BY:						
		F	PART 6 PAGI	比 		T1 	rial Year 2022
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PART 6. APPLICATION RECORDS	
E. DELIVERY RATE CALIBRATION FOR APPLICATION NUMBER(S)	
INSTRUCTIONS: Complete a separate form for each application, unless the same paramequipment, and have performed a recheck to confirm the result of the full calibration. Examplication equipment. Briefly describe the procedure, including formulas used to deternall calculations and units. Equations used in electronic (computer software) calculations printed out and attached here.	Determine the rate of delivery from the mine delivery rate calibration. Show
PROCEDURE/FORMULA:	
CALCUL ATRONG	
CALCULATIONS:	
PROTOCOL SPECIFIED SPRAY VOLUME (from Part 15, in gallons per acre or liters Enter "NA" if a spray volume is not applicable.	per hectare):
ABOVE DATA ENTERED BY:	DATE:
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PART 6. APPLICATION RECORDS	
F. VOLUME, MIXING AND DILUTION CALCULATION	NS FOR APPLICATION NUMBER(S)
	ation, unless there are no changes in multiple applications. Show of f measure. Equations used in electronic (computer software) and attached here.
CALCULATIONS ENTERED BY:	DATE:
DESCRIBE HOLDING AND TRANSPORT OF TEST SHE	SSTANCE AND ADJUVANT (if applicable) FROM STORAGE
AREA TO LOCATION OF TANK MIXING (E.g.: "Test su	ubstance held securely in an insulated cooler during transport to d within walking distance of the chemical storage building")

NARRATIVE ENTERED BY: \_\_\_\_\_DATE: \_\_\_\_

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eatment Number as indicated in the protocol).	
	TRT Number
NUMBER OF DAYS SINCE PREVIOUS APPLICATION	TIME OF ADDITIONAL AGITATION
TEST SUBSTANCE	(if applicable) e.g. "10:00" or
BATCH/LOT NUMBER	"continuous" or "just proton to application"
TIME MIXED/BY WHOM <sup>1</sup>	
TIME APPLIED/ BY WHOM <sup>1</sup>	
EQUIPMENT IDENTIFIER	
APPLICATION TYPE <sup>2</sup> (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 in
NOZZLE DISTANCE from TARGET	ORDER IN WHICH ITEMS WERE ADDED TO SPRAY MIXTURE*
PSI AT BOOM	W=Water, TS=Test Substanc A=Adjuvant
INCORPORATION - Methodology and/or Equipment - DEPTH - TIME	*e.g. 1-W, 2-TS, 3-A, 4-W
CARRIER SOURCE/TYPE	
CARRIER pH/TEMPERATURE	
EQUIPMENT used to MEASURE pH	

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# IR-4 FIELD DATA BOOK

### PART 6. APPLICATION RECORDS

H. ADDITIONAL INFORMATION FROM <b>APPLICATION NUMBER</b>	
APPLICATION DATE(Complete a separate form for each app	lication 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 (Check F or C) (E.g. 75 $^{\mathrm{o}}\mathrm{F}_{\underline{\hspace{1em}}}$ $^{\mathrm{o}}\mathrm{C}_{\underline{\hspace{1em}}}$ )	oF oC_
MEASURED WIND SPEED (Check MPH or Km/Hr) (E.g. O.5 MPH √ Km/Hr)	MPH Km/Hr_
WIND DIRECTION FROM ( <i>Check one</i> )	
ESTIMATED % OF CLOUD COVER	
MEASURED RELATIVE HUMIDITY%	
DESCRIPTION OF SOIL TILTH (smooth, firm, packed, cloddy, etc.)	
ESTIMATE OF SOIL SURFACE MOISTURE (wet, moist, dry, etc.)	
SOIL TEMPERATURE (Check F or C)	°F °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:	
NAME(S) OF PERSON(S) WHO CLEANED EQUIPMENT:	
CLEANING DESCRIPTION ENTERED BY:	DATE:

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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					
OVE DATA ENTERED I OVIDE A BRIEF NARRA g. "Test substance was app t side. Each pass was appl	TIVE SUMMAR	Y OF THE APPLICA  d test plot in two passe	TION AND IDENTIFY es; one pass down each s	ide of the row,	RMED IT: starting with the
ERE THERE ANY PROBL YES, then contact the Study PPLICATION WAS MADE	Director as soon	as possible.	YES NO_		
RRATIVE ENTERED BY				DATE:	

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J. POST APPLICATION RATE CONFIRMATION FOR	APPLICATION NUMBER
APPLICATION D	ATE
target rate was used for the pre-application calculations, t	ND SPRAY VOLUME - Show all calculations and label all units. If a the data from the calibration (average of 3 outputs) must be used for the amount applied per acre (or hectare), and determine deviation from whole percent.
required in Part 6I. Other formulas may be used instead; h the "practice" pass times.  1) Total Pass Time x Discharge Rate = Volume of Tank M  2) Volume of Tank Mix applied to Plot x Amount of TS in Total Volume of  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  3785 ml Plot ar %DEVIATION FROM THE PROTOCOL RATE SHOUL	Tank Mix = Amount of TS applied to Plot Tank Mix = Amount of TS applied per acre    Seq ft per acre
	DISCHARGE RATE (ml/sec or g/sec):
	Note: Use bed width for plots with multi-row beds.
WAS ACTUAL SPRAY VOLUME WITHIN THE PROT	IF NO, Contact the Study Director immediately.
ABOVE DATA ENTERED BY:	DATE:
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PART 6. APPLICATION RECORDS		
K. POST TREATMENT RECORDS FOR APPLICATION NUMB	ER	
APPLICATION DATE		
Was There Any Visible Phytotoxicity? (Check one) YES NO		
If YES, fill in the box below* (or 6P if required by the protocol) and c Provide a detailed description and if possible email pictures.	contact the Study Director.	
Is a phytotoxicity rating required in the protocol? ( <i>Check one</i> ) Yes, fill in the box below* (or 6P if required by the protocol).	YES NO	
Date Crop Was Observed:	Initials/date:	
*Alternatively, a separate sheet with a description of the phytotoxicity		of Part 6.
DESCRIPTION OF PHYTOTOXICITY SYMPTOMS:		
DESCRIPTION OF PHITOTOXICITY STWIFTOWS.		
PHYTOTOXICIT	Y 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 fir	rst irrigation after each appli	
subsequent applications were made prior to the first rainfall or irrigation	on. The rainfall/irrigation da	ata entered below should be
transcribed from the data included in Part 9 <u>unless otherwise indicated</u> incorporate the test substance, or if the test substance is applied by		
"NONE BEFORE HARVEST" or "NONE BEFORE SAMPLING		
DATE OF FIRST RAIN AFT	ER THIS APPLICATION	
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSE	ED TO FIRST RAINFALL	DAYS_
(Check DAYS or HOURS) (Enter #hours if first rainfall was g		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 AFT	ER THIS APPLICATION	
TIME AFTER APPLICATION THAT PLOTS WERE EXPOSED	TO FIRST IRRIGATION	DAYS_
(Check DAYS or HOURS) (Enter #hours if first irrigation was a	on the date of application.)	HOURS
	AMOUNT OF WATER	INCHES
(C)	heck INCHES, mm, or mL)	mm
`	· · · · · · · · · · · · · · · · · · ·	mL
IRRIGATION INFORMATION RECORDED BY(Initials/date)		

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

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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 thave 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 we 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 sam 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  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
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
DOWE DATA ENTERED BY
BOVE DATA ENTERED BY:DATE:
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# M. APPLICATION EQUIPMENT MAINTENANCE AND REPAIR LOG

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

ITIALS/DATE				
$\begin{array}{c} Was \ Maintenance \\ or \ Repair \ routine? \\ \hline (Check \ one) \\ \hline Initials \ and \ Date & Yes \ No^1 \\ \end{array}$				
		No <sup>1</sup>	SOP#	Description
If non-routine, incl	ude in the des	scription th	ne nature	of the defect, when discovered, and the action taken.
			PART (	6 PAGE Trial Year 2022