FIELD ID NO:	
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IR-4 FIELD DATA BOOK

A. EQUIPMENT						
INSTRUCTIONS: Complete a separate form for each piece of planting equipment used						
EQUIPMENT USED FOR PLANTING						
EQUIPMENT IDENTIFIER ¹						
¹ Each piece of equipment must have a unique identifying name or code						
ANY OTHER EQUIPMENT EMPLOYED WITH THE PLANTER: (e.g., tractor)						
NUMBER OF PASSES THAT ARE NEEDED TO PLANT THE PLOT						
SPACING BETWEEN HOPPER OUTLETS						
DESCRIPTION OF PLANTER (HOPPER/DRILLS)[Please include a picture in Part 6.	B]					
PLANTED AREA (include units)						
ABOVE DATA ENTERED BY:	DATE:					
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Total number of pages in this section at initial pagination:						

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В.	DIAGRAM OF PI	ANTING EQUIPMENT	

INSTRUCTIONS	S: Complete a separate form for each piece of pla	anting equipment used in the trial.	Sketch a diagram and/or
provide clear ph	otograph or other image of planting equipment.	Include the following required	items in the sketch or
image:1)	Relative location of the bed and the hopper	outlet placement and planting I	pattern in relation to the
field			

2) Assign each hopper outlet a unique number

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C. SEEDING RATE CALIBRATION FOR **PLANTING EQUIPMENT**

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 $\pm 1.5\%$ of the most recent full calibration.

EQUIPMENT IDENTIFI	ER							
DISCHARGE CALIBRA								 (INITIALS)
APPROXIMATE TIME (
LOCATION WHERE TH	IE CALII	BRATION WA	AS PERFORMED_					
DISCHARGE UNITS MI	EASURE	D (e.g. kg, lb,	g, oz)					
INSTRUMENT USED T	O MEAS	URE SEED W	/EIGHT					
BRIEFLY DESCRIBE PI	ROCEDU	RE USED TO	CALIBRATE EQ	UIPMENT				
Output Run Num	nber	1	2	3				
Hopper Outlet	1					Is this a	rechec	k?
Number on	2							
Planting	3							
Equipment	4					No_		
(These numbers	5							
should match	6							
those shown in	7							
the equipment 8								
diagram in 6.B) 9								
	10							
	11							
	12					Total		
Total Output Volume						A		
Mean per outlet						В		
Time (seconds)						С		
Hopper Discharge Rate						Average Discharge Rate*	D	
		.1. 50/	6.1		T T T T	NO N		* A/C=l
Is the discharge rate of						NO N		
Are individual outlet outputs within 5% of the mean during each run? YES_						NO N	A	
If this is a recheck, are	results v	vithin 5% of	original output?		YES_	NO N	A	
ABOVE DATA ENTERI	ED BY: _					DATE:		
		PA	RT 6 PAGE			Trial Y	ear 202	3

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	D.	SPEED	CALIBRATION FOR	PL	ANTING	EOUIP	MEN	ΙT
--	----	--------------	-----------------	----	--------	--------------	-----	----

QUII MEI (I IBEI (I	IFIER						
PEED CALIBRATION	ON DATE			PE	RFORMED	BY	(INITIALS)
ERRAIN OF CALIB	RATION	ΓRACK (e.	g. tilled fie	eld)			
OCATION WHERE	THE CAL	IBRATIO	N WAS PE	RFORMED			
BRIEFLY DESCRIBE	E PROCED	URE USE	D FOR SP	EED CALIBRATION	1		
PEED CALIBRATIC	N: Calcul	ate the spe	ed of the n	lanting equipment. If	annronriate	note the gea	r setting and for RP
etting used in the spec	ed calibrat	ion. Indica	ite the dist	ance (in feet) of the tr	ack on which	the planting	equipment was test
				ed for 100 ft.). The sp			
				gth (in seconds). Entr the original calibrati			
un) is required when	ever an ou			rmed, except for mult			
ame day on the same	farm.	<u> </u>		T		CALCI	TH ATTER ORDER
	RUN	GEAR	RPM	Length of test track (include units)	TIME (sec)		ULATED SPEED nclude units)
	1						
	2						
	3						
	Total of	test run		Average time (sec)		Average	
	ec)		speed				
CALCULATIONS:							
WAS THIS A RECHECK OF SPEED CALIBRATION?							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
NOTE: A target speed	l may be us	sed for plan	iting calcul	ations, rather than the	mean of thre	ee runs, but fo	or each planting a fu
alibration must be con	nducted (ex	cept for m	ultiple plar	ntings within a study r			
mean of the three runs must be within 5% of the target speed. WAS THIS A CHECK OF A TARGET SPEED?						one) YES	NO
F YES, WERE RESU				Γ SPEED?	(2.100.0		NO
BOVE DATA ENTER	RED BY:					DAT	E:
	·						
			PART 6	PAGE		Tri	ial Year 2023

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F	SEEDING	RATE	CALIBR	ATION	FOR PI	ANTING
Ŀ.	SEEDING	NAIL	CALIDI	AHUN	TOKIL	

INSTRUCTIONS: Complete a separate form for each planting, unless the same parameters are used; such as you are using the same equipment, and have performed a recheck to confirm the result of the full calibration. Determine the seeding rate delivery ed.

ABOVE DATA ENTERED BY:	
ABOVE DATA ENTERED BY:DATE:	
CALCULATIONS:	
PROCEDURE/FORMULA:	
from the planting equipment. Briefly describe the procedure, including formulas used to determine seeding rate calibrate. Show all calculations and units. Equations used in electronic (computer software) calculations in this trial must be transformers or printed out and attached here. Computer-generated values (as opposed to those entered by the field cooperators) must reviewed and clearly delineated by circling, initialing, and dating.	

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F	MIXING	TITO IA'	ATIONS FOR	ANY INOCUL	ANT
Г.		ALCUL	ALIUNSTUK	ANT INCCUL	ANI

INSTRUCTIONS: Complete a separate form for the inoculant calculations. 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 HOW THE INOCULANT WAS APPLIED AND IF T	HERE WERE ANY AFFECTS ON THE TREATED SEED
(i.e., loss of colorant)	
DESCRIBE HOLDING AND TRANSPORT OF SEED FROM ST "Seed held securely in an insulated cooler during transport to field additive within walking distance of the storage building")	
ABOVE DATA ENTERED BY:	DATE:
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G. PLANTING INFORMATION			ATE
HAS THE PLANTING EQUIPMENT BEEN USED SIN CALIBRATION/RECHECK WAS PERFORMED? (If you are about to check YES, then a recheck is usually		(Check one) YES	S NO
INSTRUCTIONS: Complete information in the space probatch or lot number of the seed; the approximate time the the plots, along with starting and ending weight of the se	vided below. Provid e seed was weighed o	and the approximate to	ime the seed was planted in
	TRT Number_	TRT 1	Number
TEST SUBSTANCE ON SEED			
BATCH/LOT NUMBER OF SEED			
TIME WEIGHED /BY WHOM ¹			
TIME PLANTING BEGAN/BY WHOM ¹			
TIME PLANTING ENDED/BY WHOM ¹			
EQUIPMENT IDENTIFIER			
STARTING WEIGHT OF SEED			
(Include units: kg, lb, g, or oz)			
ENDING WEIGHT OF SEED			
(Include units: kg, lb, g, or oz)			
TOTAL SEED PLANTED			
(Include units: kg, lb, g, or oz)			
ADDITIVE INCLUDED			
WEIGHT OF ADDITIVE			
(Include units: kg, lb, g, or oz)			
The identity of the person that performed this task may limitials are acceptable for identification.	be entered by the pe	rson entering the rest	of the data on this page.
ABOVE DATA ENTERED BY:		D	ATE:
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COI THE ORIGINAL IS IN FIELD DATA BOOK NO	PY OF THE ORIGINA	AL"	

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H.	ADDITIONAL INFORMATION FROM FOR PLANTING OF SEED	
PL	NTING DATE	

ENVIRONMENTAL DATA AT THE TIME OF PLANTING	Ent	er data in this column	
MEASURED AIR TEMPERATURE (Check F or	· C)	$^{\mathrm{o}}\mathrm{F}_{}$	oC_
MEASURED WIND SPEED (Check MPH or Km/	Hr)	MPH Kı	n/Hr
WIND DIRECTION FROM (<i>Check one</i>)	v w	NW or NO V	WIND
ESTIMATED % OF CLOUDS IN THE S	KY		
MEASURED RELATIVE HUMIDIT	Y%		
DEW (heavy, light, none, e	tc.)		
DESCRIPTION OF SOIL TILTH (smooth, firm, packed, cloddy, e	tc.)		
ESTIMATE OF SOIL SURFACE MOISTURE (wet, moist, dry, e	tc.)		
SOIL TEMPERATURE (Check F or	· C)	o _F	oC_
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check INCHES or	cm)	INCHES	cm
CLEANED BY:			
CLEANING DESCRIPTION ENTERED BY:		_DATE:	
ABOVE DATA ENTERED BY:		_ DATE:	

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	TREAT	ΓMENT	TR	EATMENT	-
PASS NUMBER	TIME	DIRECTION	PASS NUMBER	TIME	DIRECTION
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
TOTAL PASS TIME					
TOTAL PASS TIME BOVE DATA ENTERED) BY:			DATE:	
	ATIVE SUMMA	RY OF THE SEED P	LANTING		
BOVE DATA ENTERED	ATIVE SUMMA	RY OF THE SEED P	LANTING		
BOVE DATA ENTERED	ATIVE SUMMA nted in the treated	RY OF THE SEED P	LANTING es; one pass down each s	ide of the row.	")

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PART	6. PLANTING RECC	DRDS-SEED TREAT	MENT TRIA	<u>LS</u>		
J. POS	Γ PLANTING RATE CON	FIRMATION FOR SEEI) TREATMEN	ΤΤ		
PLANT	ING DATE					
	PLE FORMULAS: The for ormulas may be used instead rate.					
1)	X g seed planted in plot	x 1 plot Plot dimensions (width (m) x length (m))	10, 000 m ² hectare	OR		
	= grams	seed applied per hectare				
2)	X g seed planted in plot	x 1 plot Plot dimensions (width (ft) x length (ft))	43,560 ft ² x acre	lb 453.6 g		
	= lbs see	ed applied per acre				

WAS A	CTUAL SEEDING RATE (Check one) YES				Director immedi	ately.
ABOVE	E DATA ENTERED BY: _		·		_ DATE:	
COMPL	ETE IF APPROPRIATE: IGINAL IS IN FIELD DATA	"THIS IS A TRUE COPY	OF THE ORIGIN	AL"		

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PART 6. PLANTING RECORDS-SEED TREATMENT TRIALS

COMPLETE IF APPROPRIATE:

K. POST TREATMENT RECORDS Was There Any Visible Phytotoxicity? (Check one) YES NO If YES, fill in the box below* (or 6P if required by the protocol) and contact the Study Director. Provide a detailed description and if possible email pictures. Is a phytotoxicity rating required in the protocol? (Check one) YES____ NO____ If YES, fill in the box below* (or 6P if required by the protocol). ____ Initials/date: ___ Date Crop Was Observed: *Alternatively, a separate sheet with a description of the phytotoxicity may be inserted at the back of Part 6. DESCRIPTION OF PHYTOTOXICITY SYMPTOMS: PHYTOTOXICITY DESCRIBED BY: DATE STUDY DIRECTOR WAS CONTACTED: CONTACTED BY: Enter the requested information below for both the first rainfall and first irrigation after each planting. The rainfall/irrigation data entered below should be transcribed from the data included in Part 9 unless otherwise indicated on this page. "NONE BEFORE HARVEST" or "NONE BEFORE SAMPLING" may be entered, if applicable. DATE OF FIRST RAIN (Note the date of first rainfall after this planting.) TIME AFTER PLANTING THAT PLOTS WERE EXPOSED TO FIRST RAINFALL DAYS (Check DAYS or HOURS) (Enter #hours if first rainfall was on the date of planting.) 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 (Note the date of first irrigation after this planting.) TIME AFTER PLANTING THAT PLOTS WERE EXPOSED TO FIRST IRRIGATION DAYS (Check DAYS or HOURS) (Enter #hours if first irrigation was on the date of planting.) HOURS INCHES AMOUNT OF WATER mm (Check INCHES, mm, or mL) 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 2023

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TAKT 0. I LANTING RECORDS-SEED TREATMENT TRIALS	
L. DIFFERENTIATION OF MULTIPLE TRIALS CONDUCTED IN CLOSE PRO	XIMITY*
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 data. If "YES" is checked at least once, then an independently prepared tank-mix must be 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 y	•
have been used, and explain below which options are differentiating between which If different crop varieties are being used as a differentiation option, then enter below these varieties were chosen. Examples: Variety A produces large fruit, whereas Variety A produces fruit with a smooth skin, whereas Variety B produces fruit with heavy foliage that shields the commodity, whereas Variety B has light foliage that If options are used that are listed in the protocol but are not listed in the table below *Trials conducted in different calendar years are exempt from these requirements, person or within 30 km are conducted in late fall/early winter, then the differential reduce the possibility of data rejection by a regulatory agency.)	ow information that explains why variety B produces small fruit. In a rough skin. Variety A has exposes the commodity more. We then enter descriptions below. (If separate trials by the same
Check the options used to differentiate the trials that you are conducting in this stu	ıdy:
Option √ Description	
A Trial sites must be separated by at least 30 km (18.6 miles) [measured as stra	· .
B Planting date (for annual crops) or first application date in each trial is separate C Different crop variety (different size or shape at maturity, rough vs. smooth sur shielding the commodity, different rate of growth)—confirm with Study Director	face, different amount of foliage
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	
ABOVE DATA ENTERED BY:	DATE:

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M. 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 Mair or Repair (Check or	routine? ne)		
Initials and Date	Yes	No ¹	SOP#	Description

COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. INITIALS DATA	TE