FIELD ID NO:	
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IR-4 FIELD DATA BOOK

A. EQUIPMENT		
INSTRUCTIONS: Complete a separate form for each piece of		•
EQUIPMENT USED FOR PLANTING		
EQUIPMENT IDENTIFIER ¹ Lach piece of equipment must have a unique identifyi	ing name or code	
ANY OTHER EQUIPMENT EMPLOYED WITH THE PLAN	ITER: (e.g., tractor)	
NUMBER OF PASSES THAT ARE NEEDED TO PLANT TH	HE PLOT	
NUMBER OF HOPPER OUTLETS USED		
SPACING BETWEEN HOPPER OUTLETS		
DESCRIPTION OF PLANTER (HOPPER/DRILLS)[Please inc	clude a picture in Part 6B]	
PLANTED AREA (include units)		
TEM VIEW (Mende dilits)		
ABOVE DATA ENTERED BY:		DATE:
PART 6 PAGE		Trial Year 2024
Total number of pages in this section at initial pagina		1001 1001 1001
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO		DATE

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

B.]	DIAGRAM	OF PL	ANTING	EQUIPMENT	
------	---------	-------	--------	-----------	--

INSTRUCTIONS	· Complete a separate form for each piece of pla	anting equipment used in the trial.	Sketch a diagram and/or
provide clear pho	tograph 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 p	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 $\pm -5\%$ of the most recent full calibration.

If you are conducting	a 3-ru	n target check,	please use the 3	3-run targe	t check	form provid	led on ti	he IR-4	website.
EQUIPMENT IDENTIFI	ER								
DISCHARGE CALIBRA	TION	DATE	TIME	PEI	RFORME	D BY		((NITIALS)
APPROXIMATE TIME	OF DA	Y THAT THE C	ALIBRATION W	AS PERFO	RMED_				
LOCATION WHERE TH	IE CAI	LIBRATION WA	S PERFORMED						
DISCHARGE UNITS MI	EASUI	RED (e.g. kg, lb,	g, oz)						
INSTRUMENT USED T	O ME	ASURE SEED W	EIGHT						
BRIEFLY DESCRIBE P	ROCEI	DURE USED TO	CALIBRATE E	QUIPMENT	· ————				
Ontrod Day May	1	1				1			
Output Run Num		1	2	3		Ic tl	nis a re	echecl	z?
Hopper Outlet Number on	1					15 (1	1115 a 1		χ.
Planting	3						Yes _		
Equipment	4						No _		
(These numbers	5								
should match	6					_			
those shown in	7								
the equipment	8					1			
diagram in 6.B)	9								
,	10					-			
	11					-			
	12					Tota	 a1		
Total Output Volur						A			
Mean per outlet						В			
Time (seconds)						С			
						Average]	
Hopper Discharge R	ate					Discharge	Rate*	D	
T .1 .1: 1	1	:1: 50/	6.1		MEG	NO	N 7.4		* A/C=D
Is the discharge rate of						NO			
					NO				
					NO				
ABOVE DATA ENTERI	ED BY	:				D	ATE:		
		PAl	RT 6 PAGE	_		T	rial Yea	ar 2024	
COMPLETE IF APPROPRITHE ORIGINAL IS IN IR-4			RUE COPY OF THI D	E ORIGINAL					

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D. SPEED CALIBRATION FOR PLANTING EQUIPMENT

INSTRUCTIONS: Compequipment is required.	plete a sep	arate form	ı for additi	onal times when a com	plete calibro	ation or calibi	ration- recheck of plantin
EQUIPMENT IDENTI	FIER						
SPEED CALIBRATIO	N DATE _			PER	FORMED I	BY	(INITIALS)
TERRAIN OF CALIBI	RATION T	RACK (e.	g. tilled fie	eld)			
LOCATION WHERE	ΓHE CAL	BRATION	N WAS PE	RFORMED			
BRIEFLY DESCRIBE	PROCED	URE USE	D FOR SP	EED CALIBRATION			
determine speed (e.g. sp (in feet or meters) by th If this is a recheck, calc	d calibrati peed of plo e time nee culate the r ver an out	on. Indica inting equi ded to cove esult is wi	te the disto pment testo er that leng thin 5% of	unce (in feet) of the trace ed for 100 ft.). The spe 1th (in seconds). Entry the original calibration	ck on which ed is calculo prompts ha n. Show all	the planting of ated by dividit ve been provi calculations.	equipment was tested to ng the length of test track ded for 2 additional runs
				Length of test track	TIME	CALCU	JLATED SPEED
	RUN	GEAR	RPM	(include units)	(sec)	(in	clude units)
	1						
	2						
	3						
	Total of times (se			Average time (sec)		Average speed	
CALCULATIONS:						·	
WAS THIS A RECHEO	CK OF SP	EED CAL	IBRATIO	N ?	(Check o	one) YES	NO
IF YES, WERE RESUI The original calibration							NO
calibration must be con- mean of the three runs r	ducted (ex nust be wi	cept for m thin 5% of	ultiple plar the target	ntings within a study ma	ade on the sa	ame day on th	, ·
WAS THIS A CHECK OF A TARGET SPEED? IF YES, WERE RESULTS WITHIN 5% OF TARGET SPEED?				(Check o		NO	
IF YES, WERE RESUI	LIS WITH	11N 5% OF	- TARGET	SPEED?		YES	NO
ABOVE DATA ENTER	ED BY:					DATE	E:
				PAGE			al Year 2024
COMPLETE IF APPROP THE ORIGINAL IS IN IR	RIATE:	"THIS IS	A TRUE C		L"	DATE	

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\mathbf{E}_{-}	SEEDING	RATE	CALIBR	ATION FOR	PLANTING	

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 from the planting equipment. Briefly describe the procedure, including formulas used to determine seeding rate calibration. ed

	PART 6 PAGE	Trial Year 2024
BOVE DATA ENTERED BY:		DATE:
ALCULATIONS:		
COCEDURE/FORMULA:		
viewed and clearly delineated by ci	rcling, initialing, and dating.	
how all calculations and units. Equ r printed out and attached here. Con eviewed and clearly delineated by ci	mputer-generated values (as opposed to th	nose entered by the field cooperators) must

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F. MIXING CALCULATIONS FOR ANY INOCULANT

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	ΓHERE WERE ANY	AFFECTS ON THE TREATED SEE	D
(i.e., loss of colorant)				
DESCRIBE HOLDING AND TRANS "Seed held securely in an insulated coa additive within walking distance of the	oler during transport to field			
ABOVE DATA ENTERED BY:			DATE:	
	PART 6 PAGE _	_	Trial Year 2024	
COMPLETE IF APPROPRIATE: "TH	HIS IS A TRUE COPY OF TH			-
THE ORIGINAL IS IN IR-4 FIELD DATA	A BOOK NO	INITIALS	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		Enter dat	a in this c	column	
MEASURED AIR TEMPERATURE (Check	F or C)		О	F	oC
MEASURED WIND SPEED (Check MPH or	Km/Hr)		MPH_	K	m/Hr
WIND DIRECTION FROM (Check one)	SW	W	NW	or NO	WIND
ESTIMATED % OF CLOUDS IN TH	E SKY				
MEASURED RELATIVE HUMII	DITY%				
DEW (heavy, light, nor	ne, etc.)				
DESCRIPTION OF SOIL TILTH (smooth, firm, packed, clode	dy, etc.)				
ESTIMATE OF SOIL SURFACE MOISTURE (wet, moist, d	ry, etc.)				
SOIL TEMPERATURE (Check	F or C)		0	F	oC
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check INCHES	S or cm)		INCH	ES	cm
CLEANED BY:					
CLEANING DESCRIPTION ENTERED BY:			E:		
ABOVE DATA ENTERED BY:		DAT	TE:		
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL" THE ORIGINAL IS IN FIELD DATA BOOK NO INITIALS	Γ	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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LIELD ID NO:	

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PART 6. PLANTING RECORDS-SEED TREATMENT TRIALS 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 2024

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THE ORIGINAL IS IN FIELD DATA BOOK NO. ______INITIALS ______DATE_

COMPLETE IF APPROPRIATE:

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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 If "YES" is checked at least once, then an independently prepared tank-mix must be used in each trial studies in which this is not applicable such as studies with granular formulations.	1 0
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 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 these varieties were chosen. Examples: Variety A produces large fruit, whereas Variety B produces such a smooth skin, whereas Variety B produces fruit with a rough skin. Variety B produces fruit with a rough skin. Variety B has light foliage that exposes the common the such as the su	small fruit. riety A has odity more.
If options are used that are listed in the protocol but are not listed in the table below, then enter descri *Trials conducted in different calendar years are exempt from these requirements. (If separate trials be person or within 30 km are conducted in late fall/early winter, then the differentiation options should reduce the possibility of data rejection by a regulatory agency.)	by the same
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 shielding the commodity, different rate of growth)—confirm with Study Director if this option will be c	
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 be	een chosen:
A DOVE DATA ENTEDED DV	
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.

ITIALS/DATE					
	UIPMENT, (OR ATTA	CH TRU	F ANY MAINTENANCE AND REPAIR WORK DONE ON THE E COPIES OF THE LOGS. BLE.	
	Was Maintenance or Repair routine? (Check one)				
itials and Date	Yes	No ¹	SOP#	Description	
non-routine, incl	ude in the des	cription tl	ne nature	of the defect, when discovered, and the action taken.	
				6 PAGE Trial Year 2024	