F	IELD	ID NO:	

A. EQUIPMENT		
INSTRUCTIONS: Complete a separate form for each piece of		•
EQUIPMENT USED FOR PLANTING		
EQUIPMENT IDENTIFIER <sup>1</sup> Lach piece of equipment must have a unique identify	ving name or code	
ANY OTHER EQUIPMENT EMPLOYED WITH THE PLAI	NTER: (e.g., tractor)	
NUMBER OF PASSES THAT ARE NEEDED TO PLANT T	HE PLOT	
NUMBER OF HOPPER OUTLETS USED		
SPACING BETWEEN HOPPER OUTLETS		
DESCRIPTION OF PLANTER (HOPPER/DRILLS)[Please in	nclude a picture in Part 6B]	
PLANTED AREA (include units)		
ABOVE DATA ENTERED BY:		DATE:
PART 6 PAGI	 E	Trial Year 2020
Total number of pages in this section at initial pagin		5 = 4.2.4
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
PART 6. PLANTING RECORDS-SEED TREATMENT TRIALS

В.	DIAGRAM OF PLANTING EQUIPMENT	

INSTRUCTIONS: Complete a separate form for **each piece** of planting equipment used in the trial. Sketch a diagram and/or provide clear **photograph** of planting equipment. Include the relative location of the bed and the hopper outlet placement and planting pattern in relation to field, in the sketch or photograph. In addition, on the sketch or photograph assign each hopper outlet a unique number.

ABOVE DATA ENTERED BY:	DATE:
PART 6 P.	AGE Trial Year 2020
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COF	PY OF THE ORIGINAL"  INITIALS  DATE

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

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

INSTRUCTIONS: Complete a copy of this form (PHOTOCO calibration or calibration-recheck of planting equipment is a		when a complete
EQUIPMENT IDENTIFIER		
DISCHARGE CALIBRATION DATE		
APPROXIMATE TIME OF DAY THAT THE CALIBRAT		
LOCATION WHERE THE CALIBRATION WAS PERFOI		
DISCHARGE UNITS MEASURED (e.g. kg, lbs, g, oz)		
INSTRUMENT USED TO MEASURE SEED WEIGHT_		
BRIEFLY DESCRIBE PROCEDURE USED TO CALIBRA	ATE EQUIPMENT	
	AL PAGES IF NECESSARY).	
Instructions for recording Discharge Calibrations (6.C.2). Collect output from each hopper outlet. Record this value in and average discharge for all the outlets. Entry prompts ha calculate the total output of all outlets, the mean output per in grams per second. Also confirm whether the output of each or confirmation of a target output is being performed, detern target. Enter all calculations on 6.C.1, below. CALIBRATION CALCULATIONS:	"RUN" column next to the appropriate of we been provided for three discharge cality outlet, the outlet discharge rate, and the toth outlet during a run is within 5% of the	outlet. Calculate the total bration runs. For each run otal hopper discharge rate mean output. If a recheck
ABOVE DATA ENTERED BY:	D	ATE:
PART 6 PAC		ial Year 2020
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO.		

FIFI D	ID NO:	
	ID NO.	

#### PART 6. PLANTING RECORDS-SEED TREATMENT TRIALS

$C_{2}$	DISCHARGE CALIBRATION FO	R APPLICATION NUMBER
U.Z.	DISCHARGE CALIBRATION FO	NALI LICATION 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.

Output Run Number		1	2	3	Total	Average
Pressure (psi)					(Required)	(Optional)
Units (e.g. oz., gr	rams)					
Time (sec	onds)					
Hopper Outlet	1					1
Number on	2					
Planting	3					
Equipment	4					
(These numbers	5					
should match	6					
those shown in	7					
the equipment	8		1		7	
diagram in 6.B)	9					
_	10					
	11					
	12					
Total Volume	12					
(sum of outlet outpu	its)					
Mean per outlet	,					
(oz. or g) Hopper discharge r	ato					7
(total hopper volume/ti						
oz. or g/second)						
Was this a recheck of di	ischarge	calibration or a	a 3-run target ch	eck? (Check on	e) YES NO	
If yes, were results with	in 5% of	f original calibr	ation or target o	utput?	YES NO	
If this is a 3-discharge c	alibratio	n run or a 3-rui	n target check, is	each hopper		
discharge rate (bottom r			•	* *	YES NO_	NA
Are individual outlet ou	tputs wi	thin 5% of the	mean during eac	h run?	YESNO_	NA
An output consisting of an of seed to use. If this is a recheck is more than 5% a calibration. The original c	average recheck ( lifferent t calibratio	of three runs <u>or</u> (one run) then th han the original n data, or a true	a target output mo e results of the ort calibration result, copy, must be in t	ny be used when co ginal calibration then two more ru his field data book	alculating the planter must be used. If the one ns are needed to prook k.	output and amount output result of the duce a new, full
ABOVE DATA ENTERE	DBY: _				DATE: _	
			6 PAGE		Trial Ye	ar 2020
COMPLETE IF APPROPRIATION OF THE ORIGINAL IS IN IR-4	ATE:	"THIS IS A TRUI	E COPY OF THE C		DATE	

FIELD ID NO:	

#### PART 6. PLANTING RECORDS-SEED TREATMENT TRIALS

THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. \_\_\_\_\_ INITIALS \_\_\_

D. SPEED CALIBRA							
INSTRUCTIONS: Compequipment is required.	plete a sep	parate form	ı for additi	onal times when a comp	olete calibro	ation or calibra	tion- recheck of plantii
EQUIPMENT IDENTI	FIER						
SPEED CALIBRATIO	N DATE			PER	FORMED I	BY	(INITIALS)
TERRAIN OF CALIBI	RATION T	ΓRACK (e.	g. tilled fie	eld)			
LOCATION WHERE	THE CAL	IBRATIO	N WAS PE	RFORMED			
BRIEFLY DESCRIBE	PROCED	URE USE	D FOR SP	EED CALIBRATION _			
setting used in the speed determine speed (e.g. sq (in feet or meters) by th If this is a recheck, calc	d calibrati peed of plo te time nee culate the i ver an out	ion. Indica anting equa ded to cov result is wi	ite the disto ipment test er that leng thin 5% of	lanting equipment. If aparance (in feet) of the trace ed for 100 ft.). The specy of the in seconds. Entry the original calibration rmed, except for multip	ek on which ed is calculo prompts ha 1. Show all	the planting eq ated by dividing ve been provide calculations. A	uipment was tested to the length of test trac ed for 2 additional run speed recheck (one
same day on the same j	jarm.			Langth of test treels	TIME	CALCIII	ATED SPEED
	RUN	GEAR	RPM	Length of test track (include units)	TIME CALCULATED SPI (sec) (include units)		
	1						
	2						
	3						
	Total of	test run		Average time (sec)		Average	
	times (se			Average time (see)		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	LTS WITE	HIN 5% O	F ORIGIN.	AL CALIBRATION?	(		NO
	ducted (ex	cept for m	ultiple plai	ations, rather than the natings within a study maspeed.			
WAS THIS A CHECK	OF A TA	RGET SPI	EED?	•	(Check o		NO
IF YES, WERE RESUI	LTS WITH	HIN 5% O	F TARGE	Γ SPEED?		YES	NO
ABOVE DATA ENTER	ED BY:					DATE:	
				PAGE		Trial	Year 2020
COMPLETE IF APPROP		"THIS IS		COPY OF THE ORIGINA	 L"		

\_\_\_\_DATE\_\_\_\_

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

$\mathbf{r}$	CEEDING I	DATE	CALIDD	ATION FOR	DI ANITINIC
Г.	2EEDING I	KAIL	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 2020
BOVE DATA ENTERED BY:		DATE:
ALCULATIONS:		
OCEDURE/FORMULA:		
viewed and clearly delineated by c	ircling, initialing, and dating.	

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

#### 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 INOCULA	NT WAS APPLIED AND IF T	HERE WERE ANY AFI	FECTS ON THE TREATED SEED
(i.e., loss of colorant)			
DESCRIBE HOLDING AND TRAN "Seed held securely in an insulated of additive within walking distance of t	cooler during transport to field		
ABOVE DATA ENTERED BY: _			DATE:
	PART 6 PAGE		Trial Year 2020
COMPLETE IF APPROPRIATE: ' THE ORIGINAL IS IN IR-4 FIELD DA	"THIS IS A TRUE COPY OF TH		DATE

# FIELD ID NO: \_\_\_\_\_ IR-4 FIELD DATA BOOK

G. PLANTING INFORMATION			
HAS THE PLANTING EQUIPMENT BEEN USED SI CALIBRATION/RECHECK WAS PERFORMED? If you are about to check YES, then a recheck is usually		(Check one) YES	NO
NSTRUCTIONS: Complete information in the space protect or lot number of the seed; the approximate time the plots, along with starting and ending weight of the s	ovided below. Provid he seed was weighed	and the approximate time th	ne seed was planted in
	TRT Number_	TRT Number	r
TEST SUBSTANCE ON SEED			
BATCH/LOT NUMBER OF SEED			
TIME WEIGHED /INITIALS			
TIME PLANTING BEGAN/INITIALS			
TIME PLANTING ENDED/INITIALS			
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)			
ABOVE DATA ENTERED BY:COMPLETE IF APPROPRIATE: "THIS IS A TRUE CONTRESIONAL IS IN FIELD DATA BOOK NO	OPY OF THE ORIGINA	AL"	

FIELD ID NO:	
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## PART 6. PLANTING RECORDS-SEED TREATMENT TRIALS

H. ADDITIONAL INFORMATION FROM FOR PLANTING OF SEED

PLANTING DATE	
ENVIRONMENTAL DATA AT THE TIME OF PLANTING	Enter data in this column
MEASURED AIR TEMPERATURE (Check F or C)	o <sub>F</sub> o <sub>C</sub>
MEASURED WIND SPEED (Check MPH or Km/Hr)	MPHKm/Hr_
WIND DIRECTION FROM (Check one) N_ NE_ E_ SE_ S_ SW_	
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)	°F °C
DEPTH OF MEASUREMENT OF SOIL TEMPERATURE (Check INCHES or cm)	INCHES cm_
CLEANED BY:	
CLEANING DESCRIPTION ENTERED BY:	DATE:
ABOVE DATA ENTERED BY:	DATE:
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL"  THE ORIGINAL IS IN FIELD DATA BOOK NO INITIALS I	DATE

## FIELD ID NO: \_\_\_\_\_ IR-4 FIELD DATA BOOK

	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		
TOTAL PASS TIME					
PROVIDE A BRIEF NARR. (E.g. "Treated seed was plan				side of the row.	')
SEED WAS PLANTED BY					:
COMPLETE IF APPROPRIAT THE ORIGINAL IS IN FIELD		TRUE COPY OF THE		ATE	

FIELD ID NO:	
IR-4 FIELD	DATA BOOK

J. POS	Γ PLANTING RATE CON	FIRMATION FOR <b>SEE</b>	D TREATMEN	NT		
PLANT	ING DATE					
	PLE FORMULAS: The for ormulas may be used instead rate.					
1)	X g seed planted in plot	x 1 plot	$10,000 \text{ m}^2$			
		Plot dimensions (width (m) x length (m))	hectare	OR		
	= grams	seed applied per hectare				
2)	X g seed planted in plot	x 1 plot	43,560 ft <sup>2</sup> x	lb		
,		Plot dimensions (width (ft) x length (ft))	acre	453.6 g		
	= lbs see	ed applied per acre				
WAS A	CTUAL SEEDING DATE	WHITHIN 100/ TO : 100	( OF PROTOCO	OL DATES		
WAS A	CTUAL SEEDING RATE (Check one) YES				y Director immo	ediately.
ABOVI	E DATA ENTERED BY: _				DATE:	
	ETE IF APPROPRIATE: IGINAL IS IN FIELD DATA				 ATE	

K.	POST TREATMENT RECORDS	

Was There Any Visible Phytotoxicity Damage? (Check one) YE	S 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, <u>unless</u> 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:			
DESCRIPTION OF THE CONTROL OF THE CONTROL			
РНҮТОТОХІС	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 and entered below should be transcribed from the data included in Part HARVEST" or "NONE BEFORE SAMPLING" may be entered	9 unless otherwise indicated		
DATE OF FIRST RAIN (Note the date of first	rainfall after this planting.)		
TIME AFTER PLANTING THAT PLOTS WERE EXPOS (Check DAYS or HOURS) (Enter #hours if first rainfall v	DAYS HOURS		
	AMOUNT OF WATER (Check INCHES or mm)	INCHES mm	
RAIN INFORMATION RECORDED BY (Initials/date)			
TYPE OF IRRIGATION (e.g. overhead, trickle, flood)			
DATE OF FIRST IRRIGATION (Note the date of first ir	rigation after this planting.)		
(CL LDAVIC MOVIDO (F. //L CC		DAYS HOURS	
	AMOUNT OF WATER Check INCHES, mm, or mL)	INCHES mm mL	
IRRIGATION INFORMATION RECORDED BY(Initials/date)			
If the data entered above differ from the rainfall/irrigation data inc	luded in Part 9, explain:		
	Initials/date:		
PART 6 PAGE _		Trial Year 2020	
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL IS IN FIELD DATA BOOK NO		3	

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L.1. DIFFERENTIATION OF MULTIPLE TRIALS CONDUCTE	D IN CLOSE PROXIMITY*
ARE YOU CONDUCTING MORE THAN ONE TRIAL IN THE	S STUDY? YES NO
IS ANOTHER FIELD RESEARCH DIRECTOR IN THIS STUD CONDUCTING A TRIAL WITHIN 20 MILES OF YOUR TRIA	
If "NO" is checked twice, then no other input is needed except for If "YES" is checked at least once, then an independently prepared studies in which this is not applicable such as studies with granul	d tank-mix must be used in each trial, except in
In order to differentiate these trials, select one option from Se	et 1 <u>OR</u> two options from Set 2.
If $\underline{3}$ or more trials in this study cannot be differentiated by the sar have been used, and explain below which options are differentiat	
If different crop varieties are being used as a differentiation option these varieties were chosen. Examples: Variety A produces larged Variety A produces fruit with a smooth skin, whereas Variety B B are the two most commonly grown cultivars in this state.	ge fruit, whereas Variety B produces small fruit.
If options are used that are listed in the protocol but are not listed of those options below.	I in the table in Part 6.L.2, then enter descriptions
Enter below any additional information that will improve the und	lerstanding of the options that have been chosen.
person or within 20 miles are conducted in late fall/early winter, the reduce the possibility of data rejection by a regulatory agency.)  Trial IDs of other trials in this study to which these options as	•
Additional information:	
ABOVE DATA ENTERED BY:	DATE:
PART 6 PAGE	Trial Year 2020
COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY OF THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO IN	

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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	V	Description				
001	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)				
	А		Example 1, Trial A has a volume of 20 GPA and Trial B has a volume ≥ 30 GPA				
			Example 2, Trial A has a volume of 60 GPA and Trial B has a volume ≥ 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				
	В		Use of an adjuvant (of any suitable type) in the tank mix for one trial vs. no adjuvant in the tank mix for				
	D		another trial				
	С		Different foliar application type: foliar directed or foliar broadcast				
			(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,				
	E		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)				
	F		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				
			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)				
	I		(Irrigation must be applied at least once after each application, but over-the-top irrigation must not be				
			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				
	K		Different planting arrangement for annual crops:				
	K		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				
	M		Different training system for fruit trees (for example, central leader or open center)				
	N		Different maturity of trees or bushes in fruit and nut studies—young trees or bushes in one trial and				
			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:	DATE:	
	PART 6 PAGE	Trial Year 2020
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FIELD ID NO:		

## 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 EQ	UIPMENT I	DENTIFI	ER	
EQUIPMENT USE	D FOR <b>APPI</b>	LICATIO	N NUMI	BERS
INITIALS/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)			
Initials and Date	Yes	No	SOP#	Description
			PART	7 6 PAGE Trial Year 2020
COMPLETE IF APPE THE ORIGINAL IS II				E COPY OF THE ORIGINAL" INITIALS DATE