### FIELD ID NO: \_\_\_\_\_

### IR-4 FIELD DATA BOOK

### PART 4. TEST SUBSTANCE AND SEED RECORDS FOR SEED TREATMENT TRIALS A. RECEIPT, STORAGE AND DISPOSITION OF SEED--*INSTRUCTIONS:*

| PLEASE INSERT AN IMAGE OF SEED CONTAINE  | R LABEL AND SHIPPI                          | NG DOCUMENTS FO           | R SEED AFTER PART           |
|--|---|---------------------------|-----------------------------|
| NAME OF TEST SUBSTANCE   |   |                           |                             |
| NAME OF TEST SUBSTANCE FORMULATION OF  | N TREATED SEED                              |                           |                             |
| (E.g. Darnitall 2 EC or GroundUp or XYZ8-0.)                                     |   |                           |                             |
| UNIQUE   |   | DECEIDT                   |                             |
| IDENTIFIER:  | DATE OF                                     | FRECEIPT                  |                             |
| Provide the unique identifier of the seed as it appears of                       |   | PIRATION DATE             |                             |
| container label(s)   | (as assigned                                | ed by treatment facility) |                             |
| Do not assign an expiratio   | n date if none is provid                    | led with the seed—cor     | ntact the Study Director    |
| SOURCE OF EXPIRATION DATE  |   |                           |                             |
| Note the source of the expiration date of the seed (e.g.,                        | expiration date noted of                    | n treated seed containe   | r label, expiration date    |
| listed on documentation provided by treatment facility,                          | expiration date obtained                    | d by IR-4 Headquarters    | s)                          |
| CARRIER/TRACKING NO.<br>E.g. UPS/ABCDE12K0601601993                              |   |                           |                             |
| INDIVIDUAL WHO RECEIVED SEED   |   |                           |                             |
| WAS A BILL OF LADING/WAYBILL RECEIVED?   |   |                           | YES NO                      |
| BILL OF LADING/WAYBILL/TRACKING NO.  |   |                           |                             |
| Insert true copy if a Bill of Lading or Waybill was inclu                        | uded in the shinment                        |                           |                             |
|  |   |                           |                             |
| NUMBER OF CONTAINERS   | CONTAINER DESCR<br>(glass bottles, cloth ba |                           |                             |
| AMOUNT RECEIVED - UNTREATED  | Uni   | its: (check one) grams    | kg oz lbs                   |
| AMOUNT RECEIVED - TREATED 1  | Uni   | its: (check one) grams    | kg oz lbs                   |
| AMOUNT RECEIVED - TREATED 2  | Un  | its: (check one) grams    | kg oz lbs                   |
| CONDITION OF CONTAINER ON ARRIVAL (intac   | t, bags broken, etc.)                       |                           |                             |
| STORAGE LOCATION   |   |                           |                             |
| Provide the location (building name, cabinet number, a                           | etc.) where the untreated                   | l and treated seed will l | be stored during the trial. |
| WAS THE SEED HELD TEMPORARILY* IN ANOT<br>TO ITS LONG-TERM STORAGE LOCATION DURI |   |                           | YESNO                       |
| *Temperature monitoring should begin within 2 days of                            |   |                           |                             |
| person responsible for receiving it, regardless of where                         |   | ne i iciu nescuren Dire   | cior or inc acsignated      |
| UTC and TRT SEED ARE TO  |   | HE SAME CONDITION         | VS                          |
|  | ration to avoid cross con                   |                           | ~                           |
| IF YES, ENTER LOCATION   |   | ,                         |                             |
| DATES ESTIMA   | ATED TEMPERATURE                            | prior to monitoring       |                             |
| DATES  | TED TEMI EKATUKE                            | prior to monitoring       |                             |

| ABOVE DATA ENTERED BY:   |                           |                         |
|--|---------------------------|-------------------------|
| PART   | 4 PAGE                    | Trial Year 2020         |
| Total number of pages in this section at initial pagina                                      | ion: (Paginate labels/SDS | as belonging to Part 4) |
| COMPLETE IF APPROPRIATE: "THIS IS A TRUE COPY<br>THE ORIGINAL IS IN IR-4 FIELD DATA BOOK NO. |                           | ТЕ                      |

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

PART 4. TEST SUBSTANCE AND SEED RECORDS FOR SEED TREATMENT TRIALS B. (Formerly 4A2) DOCUMENTATION OF SEED FROM **TEST SITE FACILITY TO SEED TREATMENT FACILITY** (For use when seed is sent by FRD to treatment facility)

### SEED CHAIN OF CUSTODY FORM

# SECTION RECORDED BY FIELD RESEARCH DIRECTOR (INCLUDE THE FOLLOWING INFORMATION WHEN TRANSFERRING SEED TO SEED TREATMENT FACILITY) Field Trial ID Comp Variety Crop Variety UNTREATED SEED: Units: (check one) grams \_\_\_\_ kg \_\_\_ oz \_\_\_ lbs

| Approx. Seeu Weight                                 | UNTREATED SEED:                                   | Units: (check one) grams     | kg    | 0Z | lbs |
|---|---|------------------------------|-------|----|-----|
|   | TREATED SEED 1:                                   | Units: (check one) grams     | kg    | 0Z | lbs |
|   | TREATED SEED 2:                                   | Units: (check one) grams     | kg    | 0Z | lbs |
| Previous seed treatments<br>(List by chemical name) | No previous seed treatments<br>Yes, there were pr | revious seed treatments LIST | HERE: |    |     |
| Name of Seed Treatment<br>Facility to send seed     |   |                              |       |    |     |
| Address of facility                                 |   |                              |       |    |     |
| Courier used to ship seed to treatment facility     |   |                              |       |    |     |

### SECTION RECORDED BY SEED TREATMENT FACILITY

SEED TREATMENT FACILITY

Please sign this form, return the original to the Field Site and retain a copy for your records.

RECEIVED AT TREATMENT FACILITY BY: \_\_\_\_

Print name

Signature

Date

| SECTION                                | <b>RECORDED BY FIELD RESEA</b> | ARCH DIRECTOR        |                 |
|--|--------------------------------|----------------------|-----------------|
| RECEIVED AT <u>FIELD TEST SITE</u> BY: |                                |                      |                 |
|  | Print name                     |                      |                 |
|  |                                |                      |                 |
|  | Signature                      | Date                 |                 |
| PLEASE RETURN THE ORIGINAL TRANSFE     | R FORM TO THE SENDER, AND      | KEEP A COPY FOR YOUR | RECORDS.        |
|  | PART 4 PAGE                    |                      | Trial Year 2020 |
| COMPLETE IF APPROPRIATE: "THIS IS      | A TRUE COPY OF THE ORIGIN      | AL"                  |                 |

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

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

### PART 4. SEED RECORDS

### C. (Formerly 4B and 4C) USE LOG AND DISPOSITION OF UNUSED SEED

INSTRUCTIONS: Complete this log with information concerning the seed received. Insert records on form or provide equivalent information. Indicate use of the stated container of the seed by recording the dates that seed was removed, the amount of seed removed on each date, the purpose of the use (include trial ID# for all uses on IR-4 studies), and the initials of the individual responsible for the removal.

NAME OF TEST SUBSTANCE ON SEED DOCUMENTATION\_\_\_\_\_

UNIQUE IDENTIFIER OF SEED\_\_\_\_\_ CONTAINER ID\_\_\_\_\_

DESCRIPTION OF SEED

(e.g. light brown miniscule seeds, large white seeds, small dust-like particles. Note any *unusual characteristics or changes here.*)

ABOVE DATA ENTERED BY: \_\_\_\_\_\_ INITIAL/DATE: \_\_\_\_\_

| DATE<br>SEED<br>RECEIVED |                                  | STARTING QUANTITY OF SEED (add units)  | UTC =<br>TRT = |
|--------------------------|----------------------------------|--|----------------|
| DATE<br>REMOVED          | AMOUNT<br>REMOVED<br>(Add units) | PURPOSE (include trial ID#)<br>[e.g. apply treatments, used in other research, etc.] | INITIALS/DATE  |
|                          | UTC-                             |  |                |
|                          | TRT 1-                           |  |                |
|                          | TRT 2-                           |  |                |
|                          | UTC-                             |  |                |
|                          | TRT 1-                           |  |                |
|                          | TRT 2-                           |  |                |
|                          | UTC-                             |  |                |
|                          | TRT 1-                           |  |                |
|                          | TRT 2-                           |  |                |
|                          | UTC-                             |  |                |
|                          | TRT 1-                           |  |                |
|                          | TRT 2-                           |  |                |

Treated seed only needs to be stored and monitored until sample chain of custody receipt is received from analytical laboratory.

SAMPLE CHAIN OF CUSTODY RECEIVED? YES \_\_\_\_\_ NO\_\_\_\_ DATE OF RECEIPT \_\_\_\_\_

ABOVE DATA ENTERED BY: \_\_\_\_\_

\_\_\_\_\_ DATE: \_\_\_\_\_

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

Trial Year 2020 \_\_\_\_\_

### FIELD ID NO: \_\_\_\_\_

### IR-4 FIELD DATA BOOK

### PART 4. SEED RECORDS

D. IDENTIFICATION AND RECEIPT OF INOCULANT (generally applies to legumes, otherwise check with Study Director)

## NOTE: THE STUDY DIRECTOR MUST BE CONTACTED PRIOR TO USE OF AN INOCULANT WITH THE SEED. Dry inoculation should be the preferred application method – Discuss with Study Director prior to seeding. <u>Place an image of the label after Part 4F</u>.

| SEED TRT 1: NAME OF THE INOCULANT  |  |
|--|--|
| TYPE OF INOCULANT  |  |
| DATE O   | DF RECEIPT   |
| REC  | CEIVED BY  |
| DOES THE INOCULANT HAVE A BATCH OR LOT   | NUMBER? YES NO   |
| IF YES, ENTER THE BATC   | CH/LOT NO.   |
| EXPIRAT  | TION DATE  |
| AMOUNT RECEIVED  | D (add units)  |
| SOF  | P UTILIZED   |
| CONTAINER DESCRIPTION (e.g. glass bottles, bag)  |  |
| CONDITION ON ARRIVAL (e.g. good, bags broken, etc.)  |  |
| Were the storage conditions on the label followed? Che   | eck one: YESNO   |
|  |  |
| SEED TRT 2: NAME OF THE INOCULANT  |  |
| SEED TRT 2: NAME OF THE INOCULANT<br>TYPE OF INOCULANT   |  |
| TYPE OF INOCULANT  | DF RECEIPT   |
| TYPE OF INOCULANT<br>DATE O  | DF RECEIPT<br>CEIVED BY                                      |
| TYPE OF INOCULANT<br>DATE O  | CEIVED BY  |
| TYPE OF INOCULANT DATE O REC   | CEIVED BY CNUMBER? YES NO                                    |
| TYPE OF INOCULANT<br>DATE O<br>REC<br>DOES THE INOCULANT HAVE A BATCH OR LOT<br>IF YES, ENTER THE BATC                               | CEIVED BY CNUMBER? YES NO                                    |
| TYPE OF INOCULANT<br>DATE O<br>REC<br>DOES THE INOCULANT HAVE A BATCH OR LOT<br>IF YES, ENTER THE BATC                               | CEIVED BY CEIVED BY VESNO CH/LOT NO. TION DATE               |
| TYPE OF INOCULANT<br>DATE O<br>REC<br>DOES THE INOCULANT HAVE A BATCH OR LOT<br>IF YES, ENTER THE BATC<br>EXPIRAT<br>AMOUNT RECEIVED | CEIVED BY CEIVED BY VESNO CH/LOT NO. TION DATE               |
| TYPE OF INOCULANT<br>DATE O<br>REC<br>DOES THE INOCULANT HAVE A BATCH OR LOT<br>IF YES, ENTER THE BATC<br>EXPIRAT<br>AMOUNT RECEIVED | CEIVED BY CEIVED BY YESNO CH/LOT NO. TION DATE D (add units) |
| TYPE OF INOCULANT DATE O DATE O REC DOES THE INOCULANT HAVE A BATCH OR LOT IF YES, ENTER THE BATC EXPIRAT AMOUNT RECEIVEE SOF        | CEIVED BY CEIVED BY YESNO CH/LOT NO. TION DATE D (add units) |

ABOVE DATA ENTERED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PART 4 PAGE \_\_\_\_

\_\_\_\_

Trial Year 2020

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### FIELD ID NO: \_\_\_\_\_

### IR-4 FIELD DATA BOOK

### PART 4. SEED STORAGE RECORDS

### E. STORAGE BUILDING TEMPERATURE LOG

INSTRUCTIONS: Use this (or an equivalent) form when storage building temperatures are taken manually. For each day that temperatures are taken, directly record the date, the minimum and maximum air temperature, the degree units ( $^{\circ}F$  or  $^{\circ}C$ ) and provide the initials of the person entering the data. When temperature records are monitored automatically, the original or certified true copy of the output (data logger disk, computer printout, etc.) must be placed in the Field Data Book.

#### STORAGE LOCATION:

Provide the location (building name, cabinet numbers, etc.) where the seed is being stored during the trial.

### UNIQUE IDENTIFIER FOR TEMPERATURE RECORDER: \_\_

Enter Temperature Recorder ID—may be make/model/serial# or assigned identifier.

| DATE | TEMP<br>MIN/MAX | INITIALS | DATE | TEMP.<br>MIN/MAX | INITIALS | DATE | TEMP<br>MIN/MAX | INITIALS |
|------|-----------------|----------|------|------------------|----------|------|-----------------|----------|
|      |                 |          |      |                  |          |      |                 |          |
|      |                 |          |      |                  |          |      |                 |          |
|      |                 |          |      |                  |          |      |                 |          |
|      |                 |          |      |                  |          |      |                 |          |
|      |                 |          |      |                  |          |      |                 |          |
|      |                 |          |      |                  |          |      |                 |          |
|      |                 |          |      |                  |          |      |                 |          |
|      |                 |          |      |                  |          |      |                 |          |

Please enter the overall minimum and maximum <u>storage</u> temperatures below, even if temperature printouts are inserted. The overall min/max temperatures should <u>not</u> include temperatures during transportation between storage and field. If there are two or more seed containers (or separate shipments of seed), then enter separate min/max temperatures below for each one, depending on the dates of receipt and planting dates. <u>Untreated and</u> treated seed should have enough separation to avoid contamination.

\*Temperature records for treated seed should be kept from DATE OF RECEIPT until DATE OF PLANTING.

| *Treated Seed 1:   |  |  |  |
|--|--|--|--|
| Minimum seed storage temperature between receipt and date of planting: |  |  |  |
| Maximum seed storage temperature between receipt and date of planting: |  |  |  |
| *Treated Seed 2:   |  |  |  |
| Minimum seed storage temperature between receipt and date of planting: |  |  |  |
| Maximum seed storage temperature between receipt and date of planting: |  |  |  |

| Unless otherwise noted abov | e, all temperature units are in (Check one): | °C | °F              |
|-----------------------------|--|----|-----------------|
| Above data entered by:      | Date   |    |                 |
|                             | PART 4 PAGE                                  |    | Trial Year 2020 |

| COMPLETE IF APPROPRIATE:        | "THIS IS A TRUE COPY OF | THE ORIGINAL" |      |  |
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FIELD ID NO:

### **IR-4 FIELD DATA BOOK**

### PART 4. SEED RECORDS

### F. BALANCE CALIBRATION CHECK

INSTRUCTIONS: Complete this form or provide equivalent information for the seed. Check balance calibration by weighing standard weights that bracket the desired measurement. Record: date(s) that the balance calibration was checked, the standard weights, and the results. In addition, provide dates and a brief description of maintenance and repair work completed on the balance relevant to the trial. Be sure to initial all entries.

### MAKE, MODEL, SERIAL NUMBER OR ASSIGNED IDENTIFIER:

| Date | Stated Wt. | Recorded Wt. | Stated Wt. | Recorded Wt. | Initials |
|------|------------|--------------|------------|--------------|----------|
|      |            |              |            |              |          |
|      |            |              |            |              |          |
|      |            |              |            |              |          |
|      |            |              |            |              |          |
|      |            |              |            |              |          |
|      |            |              |            |              |          |
|      |            |              |            |              |          |
|      |            |              |            |              |          |
|      |            |              |            |              |          |

Stated Wt. = Stated mass of the standard weight(s) used in the calibration check If more than one weight is used to attain the standard weight, indicate on the lines below the individual weights. Recorded Wt. = Actual recorded mass of the standard weight(s)

RECORD DATES AND BRIEF DESCRIPTION OF ANY CALIBRATION, MAINTENANCE AND REPAIR WORK DONE ON BALANCE

|                              |               |   |         | · · · · · · · · · · · · · · · · · · · |       |            |      |
|------------------------------|---------------|---|---------|---------------------------------------|-------|------------|------|
|                              |               |   |         |                                       |       |            |      |
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|                              | PART 4 PAGE   |   |         |                                       |       | Trial Year | 2020 |
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