

Exhibit Name: Premium Calculation  
 Exhibit Number: P11-8, Plan 55  
 Record Name: Acreage  
 Record Code: P11

Reinsurance Year: 2021  
 Version: Approved  
 Release Date: 7/21/2022

|                            |                          |   |                       |                             |                          |                            |
|----------------------------|--------------------------|---|-----------------------|-----------------------------|--------------------------|----------------------------|
| <b>Insurance Plan Code</b> |                          | 55 Yield Based Dollar Amount of Insurance |                       |                             |                          |                            |
| <b>Commodity Code</b>      | 0050 Hybrid Sorghum Seed | 0062 Hybrid Seed Corn                     | 0080 Hybrid Seed Rice | 0093 Hybrid Sweet Corn Seed | 0334 Hybrid Popcorn Seed | 0066 Hybrid Vegetable Seed |
| <b>Calculations</b>        | <b>Field Name</b>        | <b>Record Number</b>                      | <b>Field Number</b>   | <b>Field Format</b>         | <b>Field Rounding</b>    | <b>Rules</b>               |

**Section 1: Liability Calculation**

**When Commodity is not "0093," Hybrid Sweet Corn Seed, "0334," Hybrid Popcorn Seed, or "0066", Hybrid Vegetable Seed:**

|   |                                 |          |    |             |  |   |
|---|---------------------------------|----------|----|-------------|--|---|
| $\text{Approved Yield} = \frac{\text{County Yield} * \text{Yield Price Factor} - \text{Minimum Payment Quantity}}{\text{Quantity}}$ | Approved Yield                  | P11      | 42 | 99999999.99 | If Unit of Measure equals pounds, "LBS", then round to whole number.<br>Otherwise, round to 1 decimal. |   |
|   | County Yield                    | ADM      |    | 9999.9      | None   | Edit with ADM Base Rate, "A01010".  |
|   | Yield Price Factor              | ICE      |    | 9.9999      | None   | Coverage Level Factor from SPOI. Edit with Yield Price Factor ICE, "D00041".  |
|   | Minimum Payment Quantity        |          |    | 999999.9    |  | Minimum Payment Quantity must be converted to applicable Unit of Measure (whole number for pounds, 1 decimal for bushels).                      |
| $\text{Premium Acre Guarantee Quantity} = \text{Approved Yield} * \text{Price Election Amount}$                                     | Premium Acre Guarantee Quantity | Internal |    | 99999999.99 | Round to whole number.   |   |
|   | Price Election Amount           | P11      | 45 | 9999.9999   | None   | If the HS option is elected, where applicable via the ADM, price should reflect higher of MPCI or HPSE price (A00810 Hybrid Seed Option Price). |

**When Commodity is "0066", Hybrid Vegetable Seed:**

|  |                                 |          |    |             |  |   |
|--|---------------------------------|----------|----|-------------|--|---|
| $\text{Approved Yield} = \text{County Yield} * \text{Coverage Level Percent}$  | Approved Yield                  | P11      | 42 | 99999999.99 | If Unit of Measure equals pounds, "LBS", then round to whole number.<br>Otherwise, round to 1 decimal. |   |
|  | County Yield                    | ADM      |    | 999.9       | None   | Edit with ADM Base Rate, "A01010".  |
|  | Coverage Level Percent          | P14      | 34 |             | None   |   |
| $\text{Premium Acre Guarantee Quantity} = \text{ROUND}(\text{Approved Yield} * \text{Price Election Amount} - \text{Minimum Payment Quantity}, 0)$ | Premium Acre Guarantee Quantity | Internal |    |             | Round to whole number.   | This value will be cupped at zero.  |
|  | Price Election Amount           | P11      | 45 | 9999.9999   | None   | If "HS" elected, price should reflect the higher value of MPCI or HPSE (A00810 Hybrid Seed Option Price). |
|  | Minimum Payment Quantity        | P11      | 79 | 9999999999  | Round to whole number.   | Minimum Payment Quantity must be in dollars (whole numbers).  |

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|---|---|
| <b>Exhibit Name:</b> Premium Calculation<br><b>Exhibit Number:</b> P11-8, Plan 55<br><b>Record Name:</b> Acreage<br><b>Record Code:</b> P11 | <b>Reinsurance Year:</b> 2021<br><b>Version:</b> Approved<br><b>Release Date:</b> 7/21/2022 |
|---|---|

**Insurance Plan Code** 55 Yield Based Dollar Amount of Insurance

|  |                            |                       |                             |
|--|----------------------------|-----------------------|-----------------------------|
| <b>Commodity Code</b> 0050 Hybrid Sorghum Seed | 0062 Hybrid Seed Corn      | 0080 Hybrid Seed Rice | 0093 Hybrid Sweet Corn Seed |
|  | 0066 Hybrid Vegetable Seed |                       | 0334 Hybrid Popcorn Seed    |

| <u>Calculations</u> | <u>Field Name</u> | <u>Record Number</u> | <u>Field Number</u> | <u>Field Format</u> | <u>Field Rounding</u> | <u>Rules</u> |
|---------------------|-------------------|----------------------|---------------------|---------------------|-----------------------|--------------|
|---------------------|-------------------|----------------------|---------------------|---------------------|-----------------------|--------------|

**When Commodity is "0093," Hybrid Sweet Corn Seed or "0334," Hybrid Popcorn Seed:**

|   |                                   |          |    |             |  |   |
|---|-----------------------------------|----------|----|-------------|--|---|
| $Approved\ Yield = County\ Yield * Coverage\ Level\ Percent$  | Approved Yield                    | P11      | 42 | 99999999.99 | If Unit of Measure equals pounds, "LBS", then round to whole number.<br><br>Otherwise, round to 1 decimal. |   |
|   | County Yield                      | ADM      |    | 999.9       | None   | Edit with ADM Base Rate, "A01010".  |
|   | Coverage Level Percent            | P14      | 34 |             | None   |   |
| $Premium\ Acre\ Guarantee\ Quantity = MIN(ROUND(Contract\ Value * Coverage\ Level\ Percent,0), ROUND(Approved\ Yield * Price\ Election\ Amount,0))$ | Premium Guarantee Per Acre Amount | Internal |    |             | Round to whole number.   | This value will be cupped at zero.  |
|   | Price Election Amount             | P11      | 45 | 9999.9999   | None   | If "HS" elected, price should reflect the higher value of MPCI or HPSE (A00810 Hybrid Seed Option Price).                                       |
|   | Contract Value                    | P11      | 78 | 9999999999  |  | Compensation specified in the hybrid sweet corn seed processor contract per acre or stated seed contract value per acre in whole dollar amount. |

**For all commodities:**

|  |                                |          |     |             |                        |  |
|--|--------------------------------|----------|-----|-------------|------------------------|--|
| $Acre\ Guarantee\ Quantity = Premium\ Acre\ Guarantee\ Quantity * Guarantee\ Adjustment\ Factor$ | Acre Guarantee Quantity        | P11      | 106 | 99999999.99 | Round to whole number. |  |
|  | Guarantee Adjustment Factor    | P11      | 69  | 0.999       | None                   | Edit with the Guarantee Adjustment ICE, "D00068" or ADM Guarantee Adjustment, "A01220" for Prevented Planting. |
| $Premium\ Total\ Guarantee\ Amount = Premium\ Acre\ Guarantee\ Quantity * Reported\ Acreage$     | Premium Total Guarantee Amount | Internal |     | 99999999.99 | Round to whole number. |  |
|  | Reported Acreage               | P11      | 48  | 999999.99   | None                   | Reported Acreage must equal the sum of all Land, P27, Reported Acreage.  |
| $Total\ Guarantee\ Amount = Acre\ Guarantee\ Quantity * Reported\ Acreage$                       | Total Guarantee Amount         | P11      | 103 | 99999999.99 | Round to whole number. |  |
|  | Reported Acreage               | P11      | 48  | 999999.99   | None                   | Reported Acreage must equal the sum of all Land, P27, Reported Acreage.  |

**When Commodity is "0093," Hybrid Sweet Corn Seed or "0334," Hybrid Popcorn Seed:**

|   |                          |          |    |            |                        |  |
|---|--------------------------|----------|----|------------|------------------------|--|
| $Premium\ Liability\ Amount = (Premium\ Total\ Guarantee\ Amount - (Minimum\ Insured\ Share\ Percent * Reported\ Acreage)) * Insured\ Share\ Percent$ | Premium Liability Amount | Internal |    | 9999999999 | Round to whole number. |  |
|   | Insured Share Percent    | P11      | 43 | 9.9999     | None                   |  |
|   | Reported Acreage         | P11      | 48 | 999999.99  | None                   |  |
|   | Minimum Payment Quantity | P11      | 79 |            |                        | Minimum Payment Quantity must be in dollars (whole numbers). Enter per acre value. |
| $Liability\ Amount = (Total\ Guarantee\ Amount - (Minimum\ Payment\ Quantity * Reported\ Acreage)) * Insured\ Share\ Percent$                         | Liability Amount         | P11      | 94 | 9999999999 | Round to whole number. |  |
|   | Reported Acreage         | P11      | 48 | 999999.99  | None                   |  |
|   | Insured Share Percent    | P11      | 43 | 9.9999     | None                   |  |
|   | Minimum Payment Quantity | P11      | 79 |            |                        | Minimum Payment Quantity must be in dollars (whole numbers). Enter per acre value. |

**When Commodity is NOT "0093," Hybrid Sweet Corn Seed or "0334," Hybrid Popcorn Seed:**

|  |                          |          |    |            |                        |  |
|--|--------------------------|----------|----|------------|------------------------|--|
| $Premium\ Liability\ Amount = Premium\ Total\ Guarantee\ Amount * Insured\ Share\ Percent$ | Premium Liability Amount | Internal |    | 9999999999 | Round to whole number. |  |
|  | Insured Share Percent    | P11      | 43 | 9.9999     | None                   |  |
| $Liability\ Amount = Total\ Guarantee\ Amount * Insured\ Share\ Percent$                   | Liability Amount         | P11      | 94 | 9999999999 | Round to whole number. |  |
|  | Insured Share Percent    | P11      | 43 | 9.9999     | None                   |  |

|   |   |
|---|---|
| <b>Exhibit Name:</b> Premium Calculation<br><b>Exhibit Number:</b> P11-8, Plan 55<br><b>Record Name:</b> Acreage<br><b>Record Code:</b> P11 | <b>Reinsurance Year:</b> 2021<br><b>Version:</b> Approved<br><b>Release Date:</b> 7/21/2022 |
|---|---|

|                            |   |   |  |
|----------------------------|---|---|--|
| <b>Insurance Plan Code</b> | 55 Yield Based Dollar Amount of Insurance |   |  |
| <b>Commodity Code</b>      | 0050 Hybrid Sorghum Seed                  | 0062 Hybrid Seed Corn<br>0066 Hybrid Vegetable Seed | 0080 Hybrid Seed Rice<br>0093 Hybrid Sweet Corn Seed<br>0334 Hybrid Popcorn Seed |

| <u>Calculations</u> | <u>Field Name</u> | <u>Record Number</u> | <u>Field Number</u> | <u>Field Format</u> | <u>Field Rounding</u> | <u>Rules</u> |
|---------------------|-------------------|----------------------|---------------------|---------------------|-----------------------|--------------|
|---------------------|-------------------|----------------------|---------------------|---------------------|-----------------------|--------------|

**Section 2: Base Premium Rate Calculation**

|                     |  |                          |          |  |                 |                      |  |
|---------------------|--|--------------------------|----------|--|-----------------|----------------------|--|
| Base Premium Rate = | <b>When Rate Method Code equals Fixed Rate, "F":</b><br>Sub County Rate * Rate Differential Factor                 | Base Premium Rate        | Internal |  | 999999.99999999 | Round to 8 decimals. |  |
|                     | <b>When Rate Method Code equals Additive, "A":</b><br>(Sub County Rate + Base Rate) * Rate Differential Factor     | Sub County Rate          | ADM      |  | 9.9999          | None                 | Edit with ADM Sub County Rate, "A01050".             |
|                     | <b>When Rate Method Code equals Multiplicative, "M":</b><br>Sub County Rate * Base Rate * Rate Differential Factor | Base Rate                | ADM      |  | 999.9999        | None                 | Edit with ADM Base Rate, "A01010".                   |
|                     | <b>Otherwise:</b><br>Base Rate * Rate Differential Factor  | Rate Differential Factor | ADM      |  | 9.99999999      | None                 | Edit with ADM Coverage Level Differential, "A01040". |

**Section 3: Optional Coverage Calculation**

|  |  |  |          |  |             |                      |   |
|--|--|--|----------|--|-------------|----------------------|---|
| Additive Optional Rate Adjustment Factor =       | <b>When Rate Method Code is Additive, "A":</b><br>$\sum$ Option Rate * Rate Differential Factor              | Additive Optional Rate Adjustment Factor       | Internal |  | 999999.9999 | Round to 4 decimals. |   |
|  |  | Option Rate                                    | ADM      |  | 99999.9999  | None                 | Option Rate will be the Sum of all Option Rate with Rate Method Code equal to Additive, "A". Edit with ADM Option Rate, "A01060". |
|  |  | Rate Differential Factor                       | ADM      |  | 9.99999999  | None                 | Edit with ADM Coverage Level Differential, "A01040".  |
| Multiplicative Optional Rate Adjustment Factor = | <b>When Rate Method Code is Multiplicative, "M":</b><br>$\sum$ Option Rate1 * Option Rate2 * Option Rate3... | Multiplicative Optional Rate Adjustment Factor | Internal |  | 999999.9999 | Round to 4 decimals. |   |
|  |  | Option Rate                                    | ADM      |  | 9.9999      | None                 | Edit with ADM Option Rate, "A01060".  |

**Section 4: Premium Rate Calculation**

|  |                                |          |  |                    |                      |  |
|--|--------------------------------|----------|--|--------------------|----------------------|--|
| Premium Rate =<br>Base Premium Rate * Unit Structure Discount Factor *<br>Multiplicative Optional Rate Adjustment Factor +<br>Additive Optional Rate Adjustment Factor | Premium Rate                   | Internal |  | 999999999.99999999 | Round to 8 decimals. | Premium Rate is capped at 0.99900000.  |
|  | Unit Structure Discount Factor | ADM      |  | 9.999              | None                 | Edit with ADM Unit Discount, "A01090".<br>When Unit Structure Code equals "OU", "UA", or "UD", then Unit Structure Discount Factor equals Optional Unit Discount Factor.<br><br>When Unit Structure Code equals "BU", then Unit Structure Discount Factor equals Basic Unit Discount Factor. |

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| <b>Insurance Plan Code</b> | 55 Yield Based Dollar Amount of Insurance |                       |                       |                             |                            |                          |
| <b>Commodity Code</b>      | 0050 Hybrid Sorghum Seed                  | 0062 Hybrid Seed Corn | 0080 Hybrid Seed Rice | 0093 Hybrid Sweet Corn Seed | 0066 Hybrid Vegetable Seed | 0334 Hybrid Popcorn Seed |
| <b>Calculations</b>        | <b>Field Name</b>                         | <b>Record Number</b>  | <b>Field Number</b>   | <b>Field Format</b>         | <b>Field Rounding</b>      | <b>Rules</b>             |

**Section 5: Total Premium, Subsidy, and Producer Premium Calculation**

|  |                                      |          |    |            |                        |  |
|--|--------------------------------------|----------|----|------------|------------------------|--|
| $\text{Preliminary Total Premium Amount} = \frac{\text{Premium Liability Amount} * \text{Premium Rate}}{\text{Experience Factor}}$ | Preliminary Total Premium Amount     | Internal |    | 9999999999 | Round to whole number. |  |
|  | Experience Factor                    | P11      | 47 | 9.999      | None                   | Must be a value between minimum and maximum on ICE, "D10023".  |
| $\text{Total Premium Amount} = \text{Preliminary Total Premium Amount} * \text{Multiple Commodity Adjustment Factor}$              | Total Premium Amount                 | P11      | 95 | 9999999999 | Round to whole number. |  |
|  | Multiple Commodity Adjustment Factor | ICE      |    | 9999.999   | None                   | Edit with ICE Multiple Cropping, "D00063". Not applicable for Hybrid Seed Rice.                                  |
| $\text{Subsidy Amount} = \text{Total Premium Amount} * \text{Subsidy Percent}$   | Subsidy Amount                       | P11      | 93 | 9999999999 | Round to whole number. | If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 6 for subsidy calculations. |
|  | Subsidy Percent                      | ADM      |    | 9.999      | None                   | Edit with ADM Subsidy Percent, "A00070".   |
| $\text{Producer Premium Amount} = \text{Total Premium Amount} - \text{Subsidy Amount}$   | Producer Premium Amount              | P11      | 96 | 9999999999 | Round to whole number. |  |

**Section 6: Beginning Farmer and Rancher (BFR), Veteran Farmer Rancher (VFR), Native Sod (NS) and Conservation Compliance (CC) Subsidy Calculations**

|  |                              |          |     |            |                       |  |
|--|------------------------------|----------|-----|------------|-----------------------|--|
| $\text{Base Subsidy Amount} = \text{Total Premium Amount} * \text{Subsidy Percent}$  | Base Subsidy Amount          | Internal |     | 9999999999 | Round to whole number | Capped by the standard rule of \$1 if applicable.  |
|  | Subsidy Percent              | ADM      |     | 9.999      | None                  | Edit with ADM Subsidy Percent, "A00070".   |
| $\text{BFR/VFR Subsidy Amount} = \text{Total Premium Amount} * 0.10 * (1 - \text{CC Subsidy Reduction Percent})$   | BFR/VFR Subsidy Amount       | Internal |     | 9999999999 | Round to whole number | Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%). |
| $\text{Native Sod Subsidy Amount} = \text{Total Premium Amount} * 0.50$  | Native Sod Subsidy Amount    | Internal |     | 9999999999 | Round to whole number | If Applicable; else 0. 0.50 (50%). For CAT coverage, Native Sod Subsidy Amount is always 0.        |
| $\text{CC Subsidy Reduction Amount} = \text{Base Subsidy Amount} * \text{CC Subsidy Reduction Percent}$  | CC Subsidy Reduction Percent | P11      | 76  | 9.9999     | None                  | If Applicable; else 0.   |
|  | CC Subsidy Reduction Amount  | P11      | 111 | 9999999999 | Round to whole number | CC Subsidy Reduction Amount. If Applicable; else 0.  |
| $\text{Subsidy Amount} = \text{Base Subsidy Amount} + \text{BFR/VFR Subsidy Amount} - \text{Native Sod Subsidy Amount} - \text{CC Subsidy Reduction Amount}$ | Subsidy Amount               | P11      | 93  | 9999999999 | Round to whole number | Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be capped at \$0.           |
| $\text{Producer Premium Amount} = \text{Total Premium Amount} - \text{Subsidy Amount}$   | Producer Premium Amount      | P11      | 96  | 9999999999 | Round to whole number |  |