

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

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

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

**Commodity Code** 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

| Calculations | Field Name | Record Number | Field Number | Field Format | Field Rounding | Rules |
|--------------|------------|---------------|--------------|--------------|----------------|-------|
|--------------|------------|---------------|--------------|--------------|----------------|-------|

**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><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><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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**Commodity Code** 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

| Calculations | Field Name | Record Number | Field Number | Field Format | Field Rounding | Rules |
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**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 capped at zero.  |
|  | Price Election Amount             | P11      | 45 | 9999.9999   | None   | If "HS" elected, price should reflect the higher value of MPC1 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 * Insured Share Percent - (Minimum Payment Quantity * 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 * Insured Share Percent - (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:**

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

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**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 = $\sum$ Option Rate * Rate Differential Factor              | <b>When Rate Method Code is Additive, "A":</b><br>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 = $\sum$ Option Rate1 * Option Rate2 * Option Rate3... | <b>When Rate Method Code is Multiplicative, "M":</b><br>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**

**The Premium Rate for ALL Unit Structures should be capped at .999 in the event various**

|   |                                |          |  |  |                     |                      |   |
|---|--------------------------------|----------|--|--|---------------------|----------------------|---|
| Premium Rate = Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor + Additive Optional Rate Adjustment Factor | Premium Rate                   | Internal |  |  | 9999999999.99999999 | 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". 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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**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.      |
| $\text{Native Sod Subsidy Amount} = \text{Total Premium Amount} * 0.50$  | 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 |   |