Section 1: Liability Calculation

When Commodity is not "0093," Hybrid Sweet Corn Seed:

- **Approved Yield** = (County Yield * Yield Price Factor) – Minimum Payment Quantity

<table>
<thead>
<tr>
<th>Calculations</th>
<th>Field Name</th>
<th>Record Number</th>
<th>Field Number</th>
<th>Field Format</th>
<th>Field Rounding</th>
<th>Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved Yield</td>
<td>P11 42</td>
<td>9999999999.99</td>
<td>If Unit of Measure equals pounds, &quot;LBS&quot;, then round to whole number. Otherwise, round to 1 decimal.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>County Yield</td>
<td>ADM 999.9</td>
<td>None</td>
<td>Edit with ADM Base Rate, &quot;A01010&quot;.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yield Price Factor</td>
<td>ICE 9.9999</td>
<td>None</td>
<td>Coverage Level Factor from SPOI. Edit with Yield Price Factor ICE, &quot;D00041&quot;.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Payment Quantity</td>
<td>999999.9</td>
<td>None</td>
<td>Minimum Payment Quantity must be converted to applicable Unit of Measure (whole number for pounds, 1 decimal for bushels).</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Premium Acre Guarantee Quantity** = Approved Yield * Price Election Amount

- **Price Election Amount** = P11 45 9999999999.99 None

When Commodity is "0093," Hybrid Sweet Corn Seed:

- **Approved Yield** = County Yield * Coverage Level Percent

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Approved Yield</td>
<td>P11 42</td>
<td>9999999999.99</td>
<td>If Unit of Measure equals pounds, &quot;LBS&quot;, then round to whole number. Otherwise, round to 1 decimal.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>County Yield</td>
<td>ADM 999.9</td>
<td>None</td>
<td>Edit with ADM Base Rate, &quot;A01010&quot;.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coverage Level Percent</td>
<td>P14 34</td>
<td>None</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Premium Guarantee Per Acre Amount** = MIN(ROUND(Contract Value * Coverage Level Percent - Minimum Payment Quantity,0), ROUND(Approved Yield * Price Election Amount - Minimum Payment Quantity,0))

- **Price Election Amount** = P11 45 9999999999.99 None

- **Contract Value** = P11 78 9999999999.99

- **Minimum Payment Quantity** = P11 79

Minimum Payment Quantity must be in dollars (whole numbers).
### Calculations

<table>
<thead>
<tr>
<th>Commodity Code</th>
<th>Insurance Plan Code</th>
<th>Calculations</th>
<th>Field Name</th>
<th>Record Number</th>
<th>Field Number</th>
<th>Field Format</th>
<th>Field Rounding</th>
<th>Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>0062 Hybrid Seed Corn</td>
<td></td>
<td>Guarantee Adjustment Factor = Premium Total Guarantee Amount / Acre Guarantee Quantity</td>
<td>Guarantee Adjustment Factor</td>
<td>P11</td>
<td>69</td>
<td>0.999</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>0080 Hybrid Seed Rice</td>
<td></td>
<td>Premium Total Guarantee Amount = Premium Acre Guarantee Quantity * Reported Acreage</td>
<td>Premium Total Guarantee Amount</td>
<td>Internal</td>
<td></td>
<td>99999999.99</td>
<td>Round to whole number.</td>
<td>Reported Acreage must equal the sum of all Land, P27, Reported Acreage.</td>
</tr>
<tr>
<td>0093 Hybrid Sweet Corn Seed</td>
<td></td>
<td>Reported Acreage = Total Guarantee Amount / Acre Guarantee Quantity - Premium Total Guarantee Amount</td>
<td>Reported Acreage</td>
<td>P11</td>
<td>48</td>
<td>99999999.99</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Guarantee Amount = Acre Guarantee Quantity * Reported Acreage</td>
<td>Total Guarantee Amount</td>
<td>P11</td>
<td>101</td>
<td>99999999.99</td>
<td>Round to whole number.</td>
<td>Reported Acreage must equal the sum of all Land, P27, Reported Acreage.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Premium Liability Amount = Premium Total Guarantee Amount * Insured Share Percent</td>
<td>Premium Liability Amount</td>
<td>Internal</td>
<td></td>
<td>9999999999</td>
<td>Round to whole number.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Insured Share Percent = Liability Amount / Premium Total Guarantee Amount</td>
<td>Insured Share Percent</td>
<td>P11</td>
<td>43</td>
<td>9.9999</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Liability Amount = Total Guarantee Amount * Insured Share Percent</td>
<td>Liability Amount</td>
<td>P11</td>
<td>92</td>
<td>9999999999</td>
<td>Round to whole number.</td>
<td></td>
</tr>
</tbody>
</table>
## Section 2: Base Premium Rate Calculation

Base Premium Rate =

- **When Rate Method Code equals Fixed Rate, “F”:**
  
  Sub County Rate * Rate Differential Factor

  Field Name: Base Premium Rate  
  Record Name: Internal  
  Field Number: 999999.99999999  
  Field Format: Round to 8 decimals.

- **When Rate Method Code equals Additive, “A”:**
  
  (Sub County Rate + Base Rate) * Rate Differential Factor

  Field Name: Sub County Rate  
  Record Name: ADM  
  Field Number: 9.9999  
  Field Format: None  
  Field Rounding: None

  Edit with ADM Sub County Rate, “A01050”.

- **When Rate Method Code equals Multiplicative, “M”:**
  
  Sub County Rate * Base Rate * Rate Differential Factor

  Field Name: Base Rate  
  Record Name: ADM  
  Field Number: 999.9999  
  Field Format: None  
  Field Rounding: None

  Edit with ADM Base Rate, “A01010”.

- **Otherwise:**

  Base Rate * Rate Differential Factor

  Field Name: Rate Differential Factor  
  Record Name: ADM  
  Field Number: 9.99999999  
  Field Format: None  
  Field Rounding: None

  Edit with ADM Coverage Level Differential, “A01040”.

## Section 3: Optional Coverage Calculation

Additive Optional Rate Adjustment Factor =

- **When Rate Method Code is Additive, “A”:**

  \[ \sum \text{Option Rate} \times \text{Rate Differential Factor} \]

  Field Name: Additive Optional Rate Adjustment Factor  
  Record Name: Internal  
  Field Number: 999999.9999  
  Field Format: Round to 4 decimals.

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

Field Name: Rate Differential Factor  
Record Name: ADM  
Field Number: 9.99999999  
Field Format: None  
Field Rounding: None

Edit with ADM Coverage Level Differential, “A01040”.

Multiplicative Optional Rate Adjustment Factor =

- **When Rate Method Code is Multiplicative, “M”:**

  \[ \sum \text{Option Rate1} \times \text{Option Rate2} \times \text{Option Rate3}... \]

  Field Name: Multiplicative Optional Rate Adjustment Factor  
  Record Name: Internal  
  Field Number: 999999.9999  
  Field Format: Round to 4 decimals.

Option Rate

Field Name: Option Rate  
Record Name: ADM  
Field Number: 9.9999  
Field Format: None  
Field Rounding: 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

\[ \text{Premium Rate} = \text{Base Premium Rate} \times \text{Unit Structure Discount Factor} \times \text{Multiplicative Optional Rate Adjustment Factor} + \text{Additive Optional Rate Adjustment Factor} \]

Field Name: Premium Rate  
Record Name: Internal  
Field Number: 9999999999999999  
Field Format: Round to 8 decimals.

Premium Rate is capped at 0.99900000.

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.

When Unit Structure Code equals “BU”, then Unit Structure Discount Factor equals Basic Unit Discount Factor.
### Exhibit Name: Premium Calculation
### Exhibit Number: P11-8, Plan 55
### Record Name: Acreage
### Record Code: P11
### Reinsurance Year: 2018
### Version: Approved
### Release Date: 1/31/2018

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

<table>
<thead>
<tr>
<th>Calculations</th>
<th>Field Name</th>
<th>Record Number</th>
<th>Field Number</th>
<th>Field Format</th>
<th>Field Rounding</th>
<th>Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary Total Premium Amount</td>
<td>Preliminary Total Premium Amount</td>
<td>Internal</td>
<td>99999999999</td>
<td>Round to whole number.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Experience Factor</td>
<td>P11</td>
<td>47</td>
<td>9.999</td>
<td>None</td>
<td>Must be a value between minimum and maximum on ICE, &quot;D10023&quot;.</td>
</tr>
<tr>
<td>Total Premium Amount = Preliminary Total Premium Amount * Multiple Commodity Adjustment Factor</td>
<td>Total Premium Amount</td>
<td>P11</td>
<td>93</td>
<td>99999999999</td>
<td>Round to whole number.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Multiple Commodity Adjustment Factor</td>
<td>ICE</td>
<td>9999.999</td>
<td>None</td>
<td>Edit with ICE Multiple Cropping, &quot;D00063&quot;. Not applicable for Hybrid Seed Rice.</td>
<td></td>
</tr>
<tr>
<td>Subsidy Amount = Total Premium Amount * Subsidy Percent</td>
<td>Subsidy Amount</td>
<td>P11</td>
<td>91</td>
<td>99999999999</td>
<td>Round to whole number.</td>
<td>If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 6 for subsidy calculations.</td>
</tr>
<tr>
<td></td>
<td>Subsidy Percent</td>
<td>ADM</td>
<td>9.999</td>
<td>None</td>
<td>Edit with ADM Subsidy Percent, &quot;A00070&quot;.</td>
<td></td>
</tr>
<tr>
<td>Producer Premium Amount = Total Premium Amount - Subsidy Amount</td>
<td>Producer Premium Amount</td>
<td>P11</td>
<td>94</td>
<td>99999999999</td>
<td>Round to whole number.</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Calculations</th>
<th>Field Name</th>
<th>Record Number</th>
<th>Field Number</th>
<th>Field Format</th>
<th>Field Rounding</th>
<th>Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Subsidy Amount = Total Premium Amount * Subsidy Percent</td>
<td>Base Subsidy Amount</td>
<td>Internal</td>
<td>99999999999</td>
<td>Round to whole number</td>
<td>Cupped by the standard rule of $1 if applicable.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Subsidy Percent</td>
<td>ADM</td>
<td>9.999</td>
<td>None</td>
<td>Edit with ADM Subsidy Percent, &quot;A00070&quot;.</td>
<td></td>
</tr>
<tr>
<td>BFR Subsidy Amount = Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent)</td>
<td>BFR Subsidy Amount</td>
<td>Internal</td>
<td>99999999999</td>
<td>Round to whole number</td>
<td>Beginning Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%).</td>
<td></td>
</tr>
<tr>
<td>Native Sod Subsidy Amount = Total Premium Amount * 0.50</td>
<td>Native Sod Subsidy Amount</td>
<td>Internal</td>
<td>99999999999</td>
<td>Round to whole number</td>
<td>If Applicable; else 0. 0.50 (50%). For CAT coverage, Native Sod Subsidy Amount is always 0.</td>
<td></td>
</tr>
<tr>
<td>CC Subsidy Reduction Amount = Base Subsidy Amount * CC Subsidy Reduction Percent</td>
<td>CC Subsidy Reduction Percent</td>
<td>P11</td>
<td>76</td>
<td>9.999</td>
<td>None</td>
<td>If Applicable; else 0.</td>
</tr>
<tr>
<td></td>
<td>CC Subsidy Reduction Amount</td>
<td>P11</td>
<td>109</td>
<td>99999999999</td>
<td>Round to whole number</td>
<td>CC Subsidy Reduction Amount. If Applicable; else 0.</td>
</tr>
<tr>
<td>Subsidy Amount = Base Subsidy Amount + BFR Subsidy Amount - Native Sod Subsidy Amount - CC Subsidy Reduction Amount</td>
<td>Subsidy Amount</td>
<td>P11</td>
<td>91</td>
<td>99999999999</td>
<td>Round to whole number</td>
<td>Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at $0.</td>
</tr>
<tr>
<td>Producer Premium Amount = Total Premium Amount - Subsidy Amount</td>
<td>Producer Premium Amount</td>
<td>P11</td>
<td>94</td>
<td>99999999999</td>
<td>Round to whole number</td>
<td></td>
</tr>
</tbody>
</table>