### Exhibits

**Exhibit Name:** Premium Calculation  
**Exhibit Number:** P11-5, Plan 47  
**Record Name:** Acreage  
**Record Code:** P11  
**Reinsurance Year:** 2012  
**Version:** Approved  
**Release Date:** 10/6/2015

<table>
<thead>
<tr>
<th>Insurance Plan Code</th>
<th>47 Actual Revenue History</th>
</tr>
</thead>
</table>
| **Commodity Code** | 0057 Cherries  
                        0154 Strawberries  
                        0215 Navel Oranges |

#### Calculations

<table>
<thead>
<tr>
<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>Acre Guarantee Quantity</td>
<td>P11</td>
<td>100</td>
<td>9999999999.99</td>
<td>Round to whole number.</td>
<td></td>
</tr>
<tr>
<td>Approved Yield</td>
<td>P11</td>
<td>46</td>
<td>9999999999.99</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Expected Revenue Factor</td>
<td>ADM</td>
<td>34</td>
<td>9.9999</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Coverage Level Percent</td>
<td>P14</td>
<td>34</td>
<td>9.9999</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Price Election Percent</td>
<td>ICE</td>
<td>47</td>
<td>9.9999</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Insured Share Percent</td>
<td>P11</td>
<td>52</td>
<td>9999999999</td>
<td>Round to whole number.</td>
<td></td>
</tr>
<tr>
<td>Total Guarantee Amount</td>
<td>P11</td>
<td>97</td>
<td>9999999999</td>
<td>Round to whole number.</td>
<td></td>
</tr>
<tr>
<td>Liability Amount</td>
<td>P11</td>
<td>88</td>
<td>9999999999</td>
<td>Round to whole number.</td>
<td></td>
</tr>
<tr>
<td>Unadjusted Approved Revenue Amount</td>
<td>Internal</td>
<td>35</td>
<td>9999999999</td>
<td>Round to whole number.</td>
<td></td>
</tr>
<tr>
<td>Expected Revenue Factor</td>
<td>ADM</td>
<td>35</td>
<td>9.9999</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Rate Yield</td>
<td>P15</td>
<td>35</td>
<td>9999999999</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

#### Section 1: Liability Calculation

\[
\text{Acre Guarantee Quantity} = \text{Approved Yield} \times \text{Expected Revenue Factor} \times \text{Coverage Level Percent} \times \text{Price Election Percent} \times \text{Insured Share Percent}
\]

\[
\text{Total Guarantee Amount} = \text{Acre Guarantee Quantity} \times \text{Reported Acreage}
\]

\[
\text{Liability Amount} = \text{Total Guarantee Amount}
\]

\[
\text{Unadjusted Approved Revenue Amount} = \text{Expected Revenue Factor} \times \text{Rate Yield}
\]

#### Section 2: Base Premium Rate Calculation

\[
\text{Current Year Yield Ratio} = \frac{\text{Rate Yield}}{\text{Reference Revenue}}
\]

\[
\text{Prior Year Yield Ratio} = \frac{\text{Rate Yield}}{\text{Reference Revenue}}
\]

\[
\text{Current Year Rate Multiplier} = \text{Current Year Yield Ratio}^{\text{Exponent Value}}
\]

\[
\text{Prior Year Rate Multiplier} = \text{Prior Year Yield Ratio}^{\text{Prior Year Exponent Value}}
\]

**Notes:**
- Printed values should be entered in the following format: 9999999999.99.
- Round to whole number for fields marked with "Round to whole number.", and to 2 decimals for fields marked with "Round to 2 decimals."
- Cup at 0.50 and Cap at 1.50 for fields marked with "Cup at 0.50 and Cap at 1.50."
- Edit with ADM Base Rate, "A01010" for fields marked with "Edit with ADM Base Rate, "A01010"."
### Calculations

**Current Year Base Rate**

- **When Rate Method Code equals Fixed Rate "F":**
  - Sub County Rate

- **When Rate Method Code equals Additive "A":**
  - Sub County Rate + (Current Year Rate Multiplier * Reference Rate + Fixed Rate)

- **When Rate Method Code equals Multiplicative"M":**
  - Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate)

- **Otherwise:**
  - Current Year Rate Multiplier * Reference Rate + Fixed Rate

**Prior Year Rate**

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

- **When Rate Method Code equals Additive, “A”:**
  - Sub County Rate + (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)

- **When Rate Method Code equals Multiplicative, “M”:**
  - Sub County Rate * (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)

- **Otherwise:**
  - Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate

**Current Year Base Rate =**

- Current Year Base Rate = Current Year Base Premium Rate
- Current Year Base Rate = Prior Year Base Rate
- Prior Year Base Rate = Current Year Base Rate * Rate Differential Factor * Unit Residual Factor

**Field Name** | **Record Number** | **Field Format** | **Field Rounding** | **Rules**
---|---|---|---|---
Current Year Base Rate | Internal | 99999999.999999 | Round to 8 decimals. | Edit with ADM Sub County Rate, "A01050".
Reference Rate | ADM | 9.9999 | None | Edit with ADM Base Rate, "A01010".
Fixed Rate | ADM | 9.9999 | None | Edit with ADM Base Rate, "A01010".
Prior Year Base Rate | Internal | 99999999.999999 | Round to 8 decimals. | Edit with ADM Sub County Rate, "A01050".
Prior Year Reference Rate | ADM | 9.9999 | None | Edit with ADM Base Rate, "A01010".
Prior Year Fixed Rate | ADM | 9.9999 | None | Edit with ADM Base Rate, "A01010".
Current Year Base Premium Rate | Internal | 99999999.999999 | Round to 8 decimals. | Edit with ADM Coverage Level Differential, "A01040".
Rate Differential Factor | ADM | 9.99999999 | None | Edit with ADM Coverage Level Differential, "A01040".
Unit Residual Factor | ADM | 9.9999 | None | Edit with ADM Coverage Level Differential, "A01040".
### Insurance Plan Code

| Commodity Code | 0057 Cherries | 0154 Strawberries | 0215 Navel Oranges |

#### Section 3: Optional Coverage Calculation

<table>
<thead>
<tr>
<th>Calculations</th>
<th>Field Name</th>
<th>Field Number</th>
<th>Field Format</th>
<th>Field Rounding</th>
<th>Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior Year Base Premium Rate</td>
<td>Internal</td>
<td>999999.999999</td>
<td>Round to 8 decimals.</td>
<td></td>
<td>Edit with ADM Coverage Level Differential, &quot;A01040&quot;.</td>
</tr>
<tr>
<td>Prior Year Rate Differential Factor</td>
<td>ADM</td>
<td>9.9999999999</td>
<td>None</td>
<td></td>
<td>Edit with ADM Coverage Level Differential, &quot;A01040&quot;.</td>
</tr>
<tr>
<td>Prior Year Unit Residual Factor</td>
<td>ADM</td>
<td>9.999</td>
<td>None</td>
<td></td>
<td>When Unit Structure Code equals &quot;OU&quot; or &quot;BU&quot;, then Prior Year Unit Residual Factor. When Unit Structure Code equals &quot;EU&quot;, then Prior Year Enterprise Unit Residual Factor.</td>
</tr>
<tr>
<td>Base Premium Rate</td>
<td>MIN (Current Year Base Premium Rate, Prior Year Base Premium Rate, or .999)</td>
<td>P11</td>
<td>91</td>
<td>9.9999999999</td>
<td>Round to 8 decimals.</td>
</tr>
</tbody>
</table>

**Additive Optional Rate Adjustment Factor**

- **When Rate Method Code = A**
  - Additive Optional Rate Adjustment Factor: Internal 999999.9999 Round to 4 decimals. | Edit with ADM Option Rate, "A01060". |
  - Option Rate: ADM 9.999 None | Edit with ADM Coverage Level Differential, "A01040". |
  - Rate Differential Factor: ADM 9.99999999 None | Edit with ADM Coverage Level Differential, "A01040". |

**Multiplicative Optional Rate Adjustment Factor**

- **When Rate Method Code equals Multiplicative, "M"**
  - Multiplicative Optional Rate Adjustment Factor: Internal 999999.9999 Round to 4 decimals. | Edit with ADM Option Rate, "A01060". |
  - Option Rate: ADM 9.999 None | Edit with ADM Coverage Level Differential, "A01040". |
### Section 4: Premium Rate

<table>
<thead>
<tr>
<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>Premium Rate</td>
<td>Internal</td>
<td>9999999999.99999999 Round to 8 decimals.</td>
<td>Premium Rate is capped at 0.99900000.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Premium Rate * Unit Structure Discount Factor *=Multiplicative Optional Rate Adjustment Factor+Additive Optional Rate Adjustment Factor</td>
<td></td>
<td></td>
<td></td>
<td>Edit with ADM Unit Discount, &quot;A01090&quot;.</td>
<td></td>
</tr>
<tr>
<td>Unit Structure Discount Factor</td>
<td>ADM</td>
<td>9.99</td>
<td>None</td>
<td>When Unit Structure Code equals &quot;OU&quot;, &quot;UA&quot;, or &quot;UD&quot;, then Unit Structure Discount Factor equals Optional Unit Discount Factor.</td>
<td>When Unit Structure Code equals &quot;BU&quot;, then Unit Structure Discount Factor equals Basic Unit Discount Factor.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Calculation</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>Internal</td>
<td>999999999999 Round to whole number</td>
<td>Must be a value between minimum and maximum on ICE, &quot;D10023&quot;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Experience Factor</td>
<td>P11</td>
<td>51</td>
<td>9.99</td>
<td>None</td>
<td>When Surcharge Applied Flag equals &quot;Y&quot;, then Premium Rate Surcharge must equal 1.05, otherwise must equal 1.00.</td>
</tr>
<tr>
<td>Premium Surcharge Percent</td>
<td>Internal</td>
<td>9.99</td>
<td>None</td>
<td></td>
<td>Edit with ICE Multiple Cropping, &quot;D00063&quot;.</td>
</tr>
<tr>
<td>Total Premium Amount = Preliminary Total Premium Amount * Multiple Commodity Adjustment Factor.</td>
<td>P11</td>
<td>89</td>
<td>999999999999 Round to whole number.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subsidy Amount = Total Premium Amount * Subsidy Percent</td>
<td>P11</td>
<td>87</td>
<td>999999999999 Round to whole number.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Producer Premium Amount = Total Premium Amount - Subsidy Amount</td>
<td>P11</td>
<td>90</td>
<td>999999999999 Round to whole number.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>