| Exhibit Name: Premium Calculation <br> Exhibit Number: P11-5, Plan 47 <br> Record Name: Acreage <br> Record Code: P11 |  | Reinsurance Year: 2017 <br> Version: Approved <br> Release Date: 2/7/2019 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Insurance Plan Code | 47 Actual Revenue History |  |  |  |  |  |
| Commodity Code 0057 Cherries 0154 Strawberries | 0227 Oranges |  |  |  |  |  |
| Calculations | Field <br> Name | Record Number | $\begin{aligned} & \text { Field } \\ & \text { Number } \end{aligned}$ | Field Format | $\begin{gathered} \begin{array}{c} \text { Field } \\ \text { Rounding } \end{array} \\ \hline \end{gathered}$ | Rules |
| Section 1: Liability Calculation |  |  |  |  |  |  |
| $\begin{gathered} \text { Approved Yield * Expected Revenue Factor * Coverage } \\ \text { Acre Guarantee Quantity }=\text { Level Percent * Price Election Percent * Insured Share } \\ \text { Percent } \end{gathered}$ | Acre Guarantee Quantity | P11 | 103 | 99999999.99 | Round to whole number. |  |
|  | Approved Yield | P11 | 42 | 99999999.99 | None |  |
|  | Expected Revenue Factor | ADM |  | 9.9999 | None | Edit with ADM Price "A00810" |
|  | Coverage Level Percent | P14 | 34 | 9.9999 | None |  |
|  | Price Election Percent | ICE |  | 9.9999 | None | Payment Factor. Edit with ICE Price Election Percent, "D00007". |
|  | Insured Share Percent | P11 | 43 | 9.9999 | None |  |
| Total Guarantee Amount = Acre Guarantee Quantity * Reported Acreage | Total Guarantee Amount | P11 | 100 | 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. |
| Liability Amount = Total Guarantee Amount | Liability Amount | P11 | 91 | 9999999999 | Round to whole number. |  |
| $\begin{aligned} & \text { Unadjusted Approved } \\ & \text { Revenue Amount }\end{aligned}=$ Expected Revenue Factor * Rate Yield | Unadjusted Approved Revenue Amount | Internal |  | 99999999 | Round to whole number. |  |
|  | Expected Revenue Factor | ADM |  | 9.9999 | None | Edit with ADM Price "A00810" |
|  | Rate Yield | P15 | 35 | 99999999.99 | None |  |
| Section 2: Base Premium Rate Calculation |  |  |  |  |  |  |
| Current Year Yield Ratio = Rate Yield / Reference Revenue | Current Year Yield Ratio | Internal |  | 9999999.99 | Round to 2 decimals. | Cup at 0.50 and Cap at 1.50. |
|  | Rate Yield | P15 | 35 | 99999999.99 | None |  |
|  | Reference Revenue | ADM |  | 99999.99 | None | Edit with ADM Base Rate, "A01010" Reference Amount. |
| Prior Year Yield Ratio = Rate Yield / Prior Year Reference Revenue | Prior Year Yield Ratio | Internal |  | 9999999.99 | Round to 2 decimals. |  |
|  | Rate Yield | P15 | 35 | 99999999.99 | None |  |
|  | Prior Year Reference Revenue | ADM |  | 99999.99 | None | Edit with ADM Base Rate, "A01010" Prior Year Reference Amount. |
| $\begin{gathered} \hline \text { Current Year Rate } \\ \text { Multiplier } \end{gathered} \text { Current Year Yield Ratio ^ Exponent Value }$ | Current Year Rate Multiplier | Internal |  | 9999.99999999 | Round to 8 decimals. |  |
|  | Exponent Value | ADM |  | 599.999 | None | Edit with ADM Base Rate, "A01010". |
| Prior Year Rate Multiplier = Prior Year Yield Ratio ^ Prior Year Exponent Value | Prior Year Rate Multiplier | Internal |  | 999999.99999999 | Round to 8 decimals. |  |
|  | Prior Year Exponent Value | ADM |  | 599.999 | None | Edit with ADM Base Rate, "A01010". |



| Exhibit Name: Premium Calculation  <br> Exhibit Number: P11-5, Plan 47 Reinsurance Year: 2017 <br> Record Name: Acreage Version: Approved <br> Record Code: P11 Release Date: $2 / 7 / 2019$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Insurance Plan Code | 47 Actual Revenue History |  |  |  |  |  |
| Commodity Code 0057 Cherries 0154 Strawberries | 0227 Oranges |  |  |  |  |  |
| Calculations | Field <br> Name | Record <br> Number | Field <br> Number | Field <br> Format | Field <br> Rounding | Rules |
| $\begin{aligned} \text { Prior Year Base Premium } \\ \text { Rate } \end{aligned}=\begin{aligned} & \text { Prior Year Base Rate * Prior Year Rate Differential } \\ & \text { Factor * Prior Year Residual Factor * } 1.2 \end{aligned}$ | Prior Year Base Premium Rate | Internal |  | 999999.99999999 | Round to 8 decimals. |  |
|  | Prior Year Rate Differential Factor | ADM |  | 9.99999999 | None | Edit with ADM Coverage Level Differential, "A01040". |
|  | Prior Year Unit Residual Factor | ADM |  | 9.999 | None | Edit with ADM Coverage Level Differential, "A01040". <br> When Unit Structure Code equals "OU" or "BU", then Prior Year Unit Residual Factor. <br> When Unit Structure Code equals "EU", then Prior Year Enterprise Unit Residual Factor. |
| $\begin{aligned} & \text { Base Premium Rate = MIN (Current Year Base Premium Rate, Prior Year Base } \\ & \text { Premium Rate, or .999) } \end{aligned}$ | Base Premium Rate | P11 | 94 | 9.99999999 | Round to 8 decimals. | Edit with ADM Base Rate, "A01010". |
| Section 3: Optional Coverage Calculation |  |  |  |  |  |  |
| Additive Optional Rate $\left.\begin{array}{l}\text { Wdjustment Factor }\end{array}=\begin{array}{l}\text { When Rate Method Code = A } \\ \text { SUM (Option Rate(s)) * Rate D }\end{array}\right]$ | Additive Optional Rate Adjustment Factor | Internal |  | 999999.9999 | Round to 4 decimals. |  |
|  | Option Rate | ADM |  | 9.9999 | None | 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 | Internal |  | 999999.9999 | Round to 4 decimals. |  |
|  | Option Rate | ADM |  | 9.9999 | None | Edit with ADM Option Rate, "A01060". |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Insurance Plan Code | 47 Actual Revenue History |  |  |  |  |  |
| Commodity Code 0057 Cherries 0154 Strawberries | 0227 Oranges |  |  |  |  |  |
|  | Field <br> Name | Record <br> Number | $\begin{gathered} \text { Field } \\ \text { Number } \end{gathered}$ | Field Format | Field Rounding | Rules |
| Section 4: Premium Rate |  |  |  |  |  | The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would cause it to exceed 1.0. |
|  | Premium Rate | Internal |  | 9999999999.99999999 | Round to 8 decimals. | Premium Rate is capped at 0.99900000 . |
|  Base Premium Rate * Unit Structure Discount Factor * <br> $=$ <br> Multiplicative Optional Rate Adjustment Factor+ <br> Additive Optional Rate Adjustment Factor | 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> When Unit Structure Code equals "BU", then Unit Structure Discount Factor equals Basic Unit Discount Factor. |
| Section 5: Total Premium, Subsidy, and Producer Premium Calculation |  |  |  |  |  |  |
| $\begin{aligned} & \text { Preliminary Total }=\text { Liability Amount * Premium Rate * Experience Factor * } \\ & \text { Premium Amount } \end{aligned}$ | 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". |
|  | Premium Surcharge Percent | Internal |  | 9.99 | None | When Surcharge Applied Flag equals " $Y$ ", then Premium Rate Surcharge must equal 1.05, otherwise must equal 1.00. |
| $\text { Total Premium Amount } \quad=\begin{aligned} & \text { Preliminary Total Premium Amount } \\ & \text { Commodity Adjustment Factor. } \end{aligned}$ | Total Premium Amount | P11 | 92 | 9999999999 | Round to whole number. |  |
|  | Multiple Commodity Adjustment Factor | ICE |  | 9999.999 | None | Edit with ICE Multiple Cropping, "D00063". |
| Subsidy Amount $=$ Total Premium Amount * Subsidy Percent | Subsidy Amount | P11 | 90 | 9999999999 | Round to whole number. | If this record qualifies for Beginning Farmer and Rancher, see Section 6 for subsidy calculations. |
|  | Subsidy Percent | ADM |  | 9.999 | None | Edit with ADM Subsidy Percent, "A00070". |
| $\begin{aligned} & \text { Producer Premium } \\ & \text { Amount } \end{aligned}=\text { Total Premium Amount }- \text { Subsidy Amount }$ | Producer Premium Amount | P11 | 93 | 9999999999 | Round to whole number. |  |


| Exhibit Name: Premium Calculation <br> Exhibit Number: P11-5, Plan 47 <br> Record Name: Acreage <br> Record Code: P11 |  | Reinsurance Year: 2017 <br> Version: Approved <br> Release Date: 2/7/2019 |  |  |  |  |
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| Insurance Plan Code | 47 Actual Revenue History |  |  |  |  |  |
| Commodity Code 0057 Cherries 0154 Strawberries | 0227 Oranges |  |  |  |  |  |
| Calculations | Field <br> Name | Record Number | Field Number | Field <br> Format | Field <br> Rounding | Rules |
| Section 6: Beginning Farmer and Rancher (BFR) and Conservation Compliance (CC) Subsidy Calculations |  |  |  |  |  |  |
| Base Subsidy Amount $=$ Total Premium Amount * Subsidy Percent | Base Subsidy Amount | Internal |  | 9999999999 | Round to whole number | Cupped by the standard rule of \$1 if applicable. |
|  | Subsidy Percent | ADM |  | 9.999 | None | Edit with ADM Subsidy Percent, "A00070". |
| $\text { BFR Subsidy Amount }=\begin{aligned} & \text { Total Premium Amount } * 0.10 *(1-\text { CC Subsidy } \\ & \text { Reduction Percent }) \end{aligned}$ | BFR Subsidy Amount | Internal |  | 9999999999 | Round to whole number | Beginning Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10\%). |
| $\begin{gathered} \text { Amount Subsidy Reduction } \end{gathered}=\text { Base Subsidy Amount * CC Subsidy Reduction Percent }$ | CC Subsidy Reduction Percent | P11 | 76 | 9.9999 | None | If Applicable; else 0. |
|  | CC Subsidy Reduction Amount | P11 | 108 | 9999999999 | Round to whole number | CC Subsidy Reduction Amount. If Applicable; else 0 . |
| $\text { Subsidy Amount }=\begin{aligned} & \text { Base Subsidy Amount }+ \text { BFR Subsidy Amount }- \text { CC } \\ & \text { Subsidy Reduction Amount } \end{aligned}$ | Subsidy Amount | P11 | 90 | 9999999999 | Round to whole number | Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at $\$ 0$. |
| $\begin{gathered} \text { Producer Premium } \\ \text { Amount } \end{gathered}=\text { Total Premium Amount }- \text { Subsidy Amount }$ | Producer Premium Amount | P11 | 93 | 9999999999 | Round to whole number |  |

