

| Exhibit Name: Premium Calculation <br> Exhibit Number: P19-1 Plan 76 <br> Record Name: WFRP Farm Reports <br> Record Code: P19 |  | Reinsurance Year: 2024 <br> Version: Draft <br> Release Date: 6/27/2024 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Insurance Plan Code $\quad 76$ Whole Farm Revenue Protection (WFRP) |  |  |  |  |  |  |
| Commodity Code 0076 Whole Farm Revenue Protection (WFRP) <br> 9110 Micro Farm <br>  Calculations |  |  |  |  |  |  |
|  | Field <br> Name | Record <br> Number | Field <br> Number | Field <br> Format | Field <br> Rounding | Rules |
| If Insurance Option Code List contains "RC", "RS", or "RX": |  |  |  |  |  |  |
| Effective Coverage LevelCoverage Level Percent * (Approved Revenue Amount $/$lesser of: MAX(Average Revenue Amount, Indexed <br> PercentAverage Revenue Amount, Expanded Operation <br> Average Revenue Amount) or Total Expected Revenue <br> Amount) | Effective Coverage Level Percent | Internal |  | 9.9999 | Round to 4 decimals. |  |
|  | Coverage Level Percent | P14 | 34 | 9.9999 | None |  |
|  | Approved Revenue Amount | P19 | 71 | 9999999999 | None |  |
|  | Average Revenue Amount | P19 | 82 | 9999999999 | None |  |
|  | Indexed Average Revenue Amount | P19 | 84 | 9999999999 | None |  |
|  | Expanded Operation Average Revenue Amount | P19 | 85 | 9999999999 | None |  |
|  | Total Expected Revenue Amount | P19 | 70 | 9999999999 | None |  |
| If Effective Coverage Level Percent equals Coverage Level Percent "or" Insurance Option Code List does not contain "RC", "RS", or "RX": |  |  |  |  |  |  |
| $\begin{array}{r} \text { Weighted Commodity } \\ \text { Rate } \end{array}=\text { Commodity Rate } * \text { Percent of Revenue }$ | Weighted Commodity Rate | Internal |  | 99.999 | Round to 3 decimals. |  |
|  | Commodity Rate | Internal |  | 999999.9999 | None | Edit with ADM AGR Rate, "A01000" base rate. |
| If Effective Coverage Level Percent does not equal Coverage Level Percent "and" Insurance Option Code List contains "RC", "RS", or "RX": |  |  |  |  |  |  |
|  | Lower Coverage Level Percent | Internal |  | 9.99 | Round to 2 decimals. |  |
| $\begin{aligned} & \text { Upper Coverage Level } \\ & \text { Percent } \end{aligned}=\text { Lower Coverage Level Percent }+0.05$ | Upper Coverage Level Percent | Internal |  | 9.99 | Round to 2 decimals. |  |
| $\begin{aligned} & \text { Lower Weighted }=\text { Commodity Rate } * \text { Percent of Revenue } \\ & \text { Commodity rate } \end{aligned}$ | Lower Weighted Commodity Rate | Internal |  | 99.999 | Round to 3 decimals. | Edit Commodity Rate with ADM AGR Rate, "A01000" base rate for Lower Coverage Level Percent. |
| $\begin{aligned} & \text { Upper Weighted }=\text { Commodity Rate * Percent of Revenue } \\ & \text { Commodity rate } \end{aligned}$ | Upper Weighted Commodity Rate | Internal |  | 99.999 | Round to 3 decimals. | Edit Commodity Rate with ADM AGR Rate, "A01000" base rate for Upper Coverage Level Percent. |
| If Effective Coverage Level Percent equals Coverage Level Percent "or" Insurance Option Code List does not contain "RC", "RS", or "RX": |  |  |  |  |  |  |
| Total Weighted Farm Rate = sum of Weighted Commodity Rate | Total Weighted Farm Rate | P19 | 87 | 99.999 | Round to 3 decimals. |  |



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| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Insurance Plan Code $\quad 76$ Whole Farm Revenue Protection (WFRP) |  |  |  |  |  |  |
| Commodity Code 0076 Whole Farm Revenue Protection <br>  9110 Micro Farm <br> Calculations |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Field } \\ & \text { Name } \end{aligned}$ | Record <br> Number | Field <br> Number | Field <br> Format | Field <br> Rounding | Rules |
| Section 3: Diversity Factor (DF) Calculation |  |  |  |  |  |  |
|  | Commodity Factor | Internal |  | 9.999 | Round to 3 decimals. |  |
| Commodity Factor $=1.00$ Qualifying Commodity Count | Qualifying Commodity Count | P19 | 92 | 999 | None | Combined total of eligible commodity count and grouped commodity count unless Qualifying Commodity Count Cup Flag is set to " Y " then will equal the greater of Eligible Commodity Count plus Grouped Commodity Count, or the Qualifying Commodity Count when Premium Based Code equaled "I". See Exhibit P14-7. |
| For each Eligible Commodity (not grouped): $\begin{gathered} \text { Commodity Deviation }=\begin{array}{l} \text { Round(ABS((Expected Revenue Amount/Total Expected } \\ \text { "Absolute Value" } \end{array}=\begin{array}{l} \text { Revenue Amount) }- \text { Commodity Factor),3) } \end{array} \end{gathered}$ | Commodity Deviation | Internal |  | 9.999 | Round to 3 decimals. |  |
| ```If Grouped Commodity Count > 0: Commodity Deviation = Round(ABS((MQA/Total Expected Revenue Amount) "Absolute Value" = - Commodity Factor),3)* Grouped Commodity Count``` | Commodity Deviation | Internal |  | 9.999 | Round to 3 decimals. |  |
|  | MQA | Internal |  | 9999999999 | None | See Exhibit P14-7. |
|  | Grouped Commodity Count | P19 | 90 | 999 | None | See Exhibit P14-7. |
| $\begin{aligned} & \text { Sum of Commodity } \\ & \text { Deviation (DEV) Factors } \end{aligned} \text { sum of all Commodity Deviations }$ | Sum of Commodity Deviation Factors | Internal |  | 9.999 | Round to 3 decimals. | "DEV" will be used in determination of Diversity Factor (DF). |
| QUALIFYING COMMODITY COUNT FORMULA |  |  |  |  |  |  |
| 1 Commodity | DF $=1.000$ |  |  |  |  |  |
| 2 Commodities | $D F=0.668+\left(0.0179999\right.$ * DEV) $+\left(0.3142858 *\right.$ DEV $\left.^{2}\right)$ |  |  |  |  |  |
| 3 Commodities | $\mathrm{DF}=0.523+(0.0607623 * \mathrm{DEV})+\left(0.2229000 * \mathrm{DEV}^{2}\right)$ |  |  |  |  |  |
| 4 Commodities | $\mathrm{DF}=0.474+(0.0248208 *$ DEV $)+\left(0.2184720\right.$ * DEV $\left.{ }^{2}\right)$ |  |  |  |  |  |
| 5 Commodities | $D F=0.437+(0.0710358 * D E V)+\left(0.1760129 * E^{2}\right)$ |  |  |  |  |  |
| 6 Commodities | $D F=0.412+(0.0325131 *$ DEV $)+\left(0.1945816 * E^{2}\right)$ |  |  |  |  |  |
| 7 Commodities or more | DF $=0.410$ |  |  |  |  |  |
| Diversity Factor (DF) = See above | Diversity Factor | P19 | 93 | 9.999 | Round to 3 decimals. |  |




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